

Introduksjon til Flux

Hva?

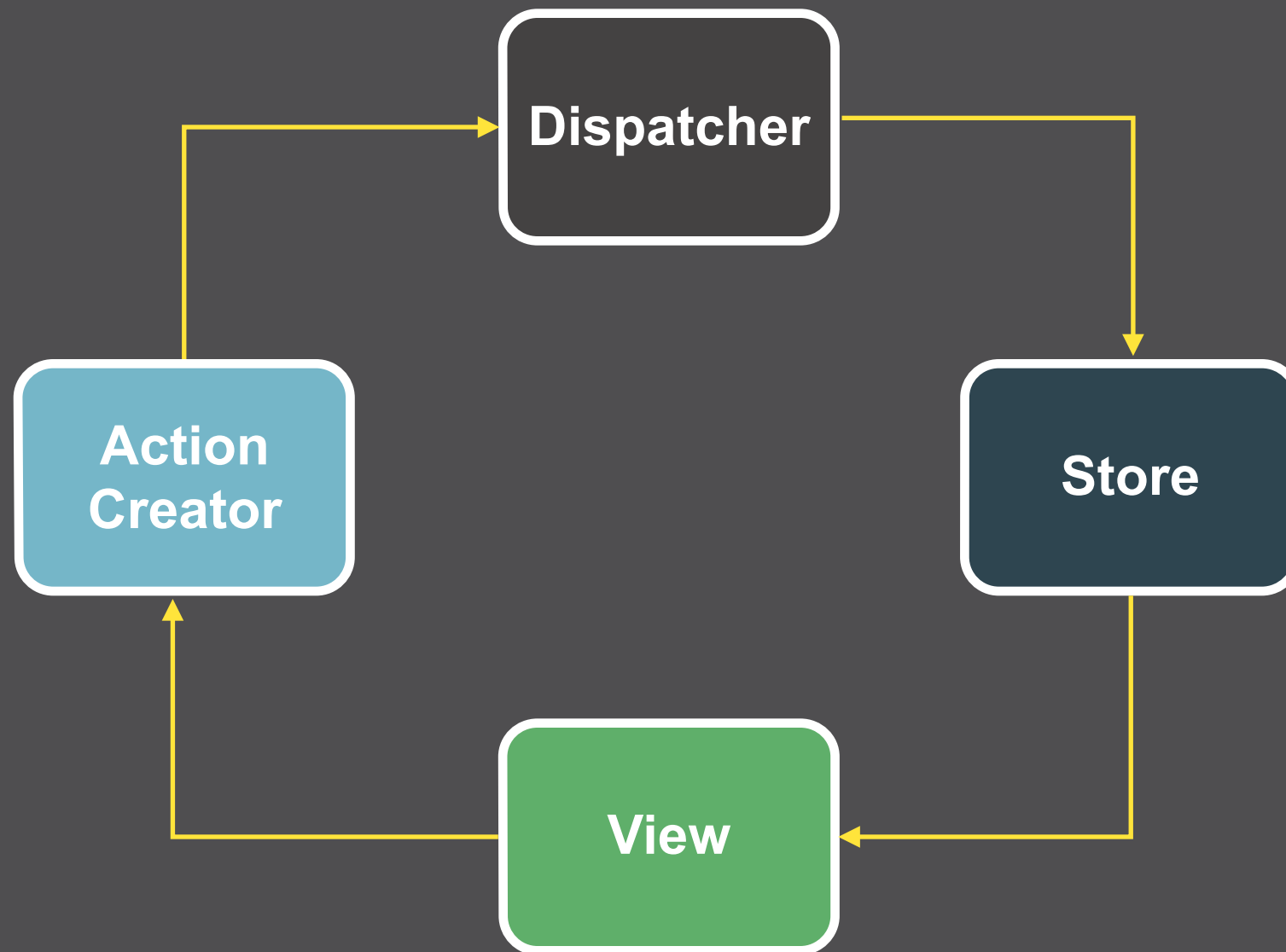
Hvordan?

Hvorfor?

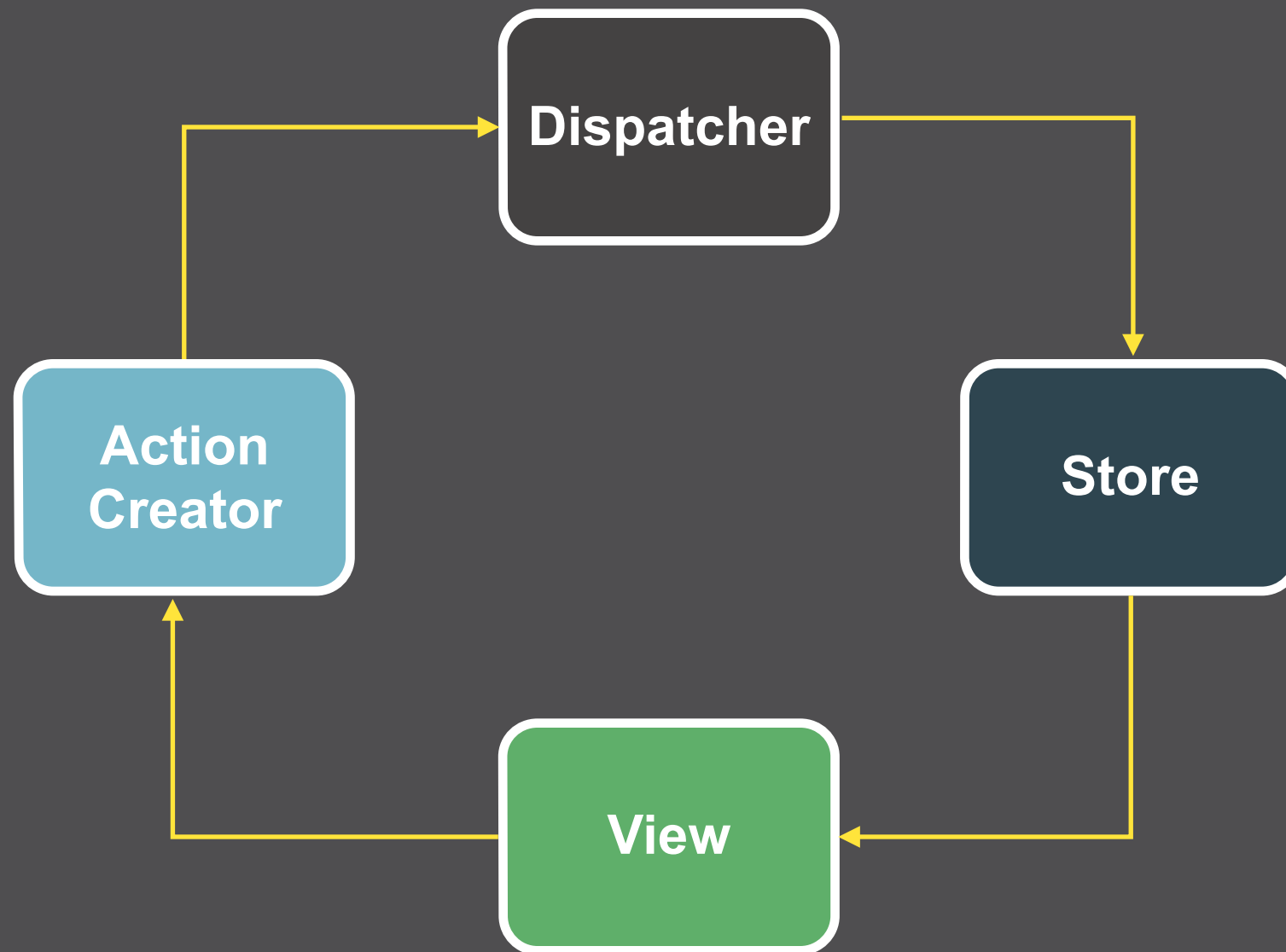
Hva?

**Et design pattern for
frontend**

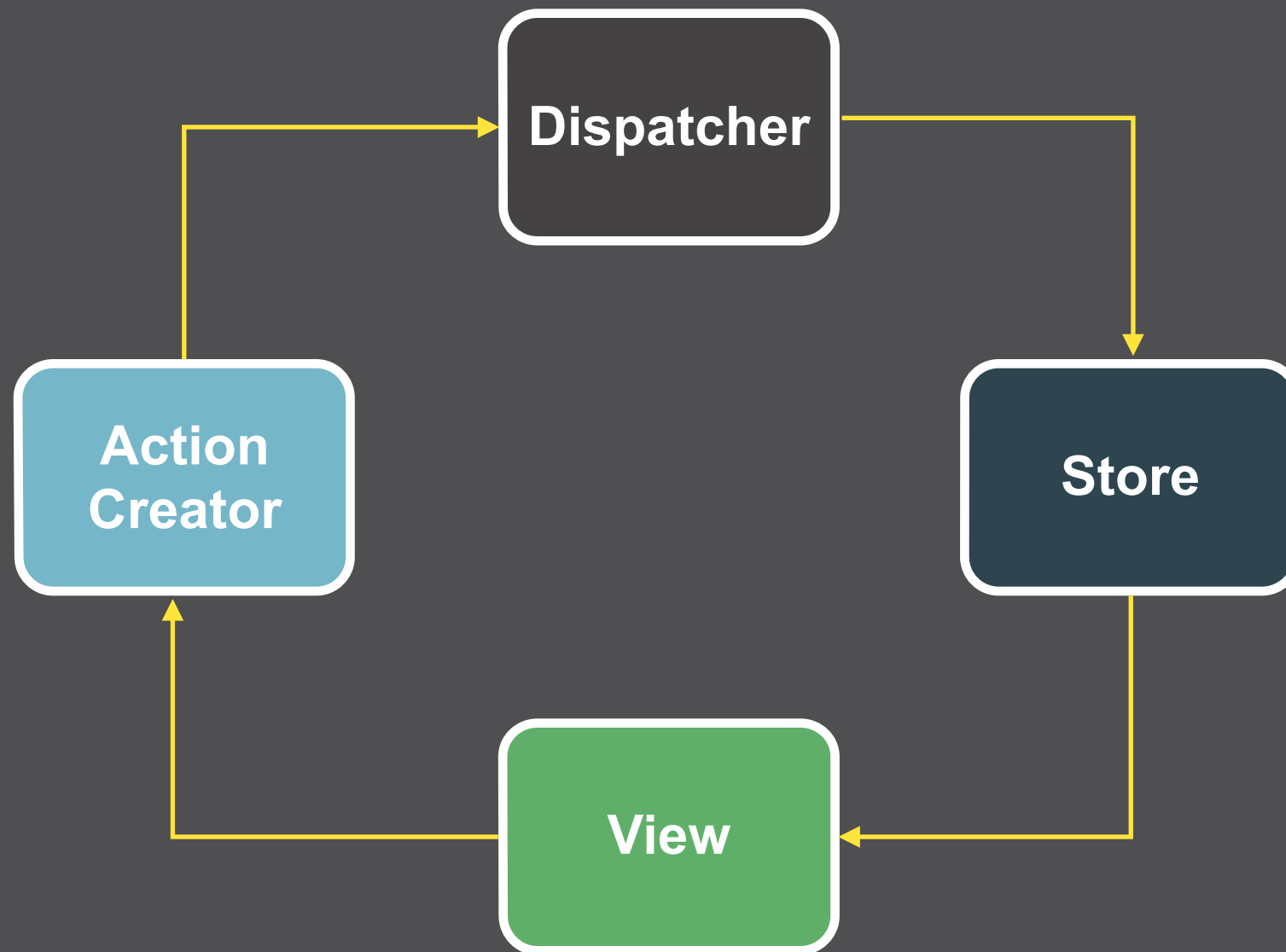
Flux



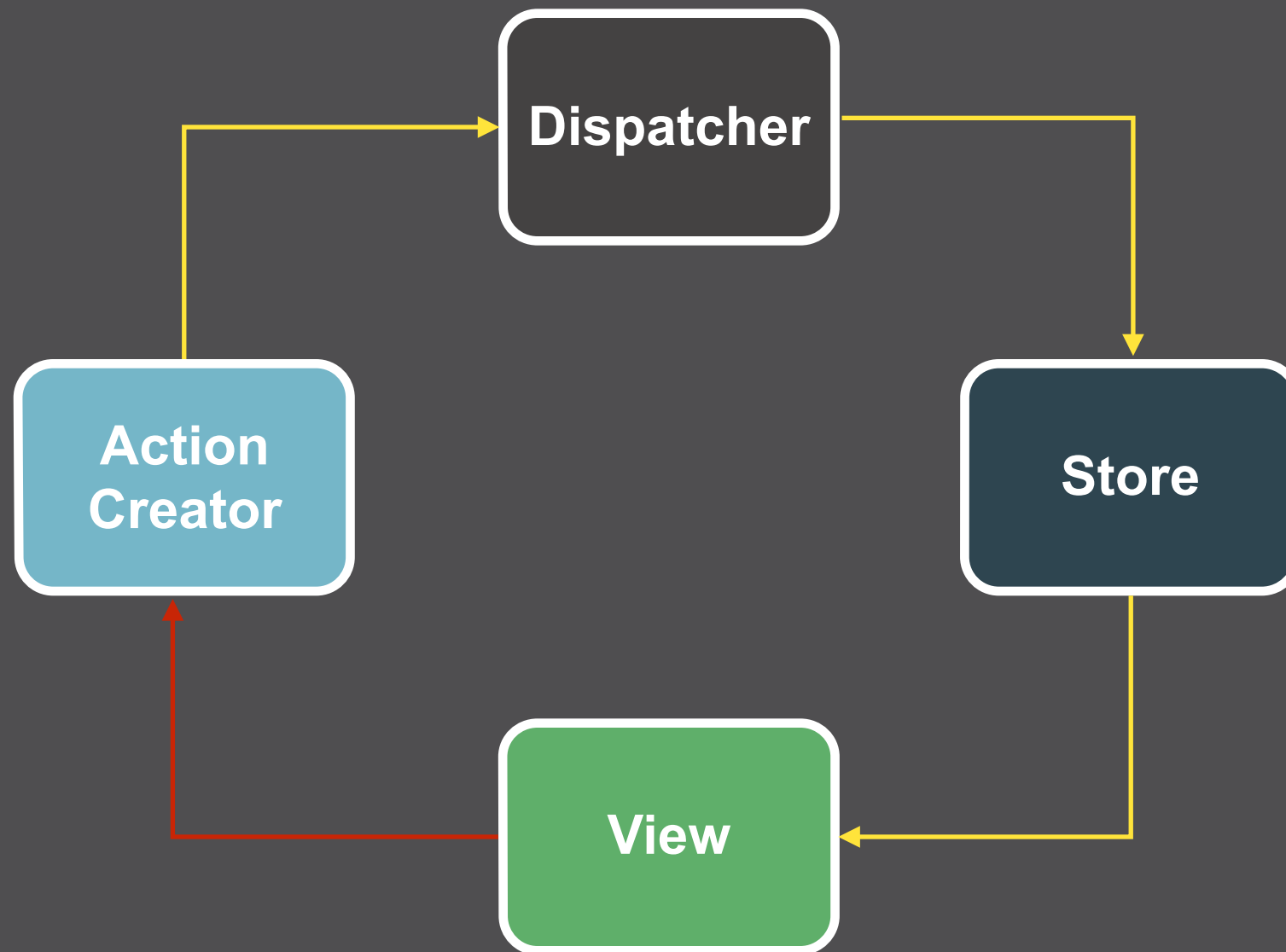
Mental modell



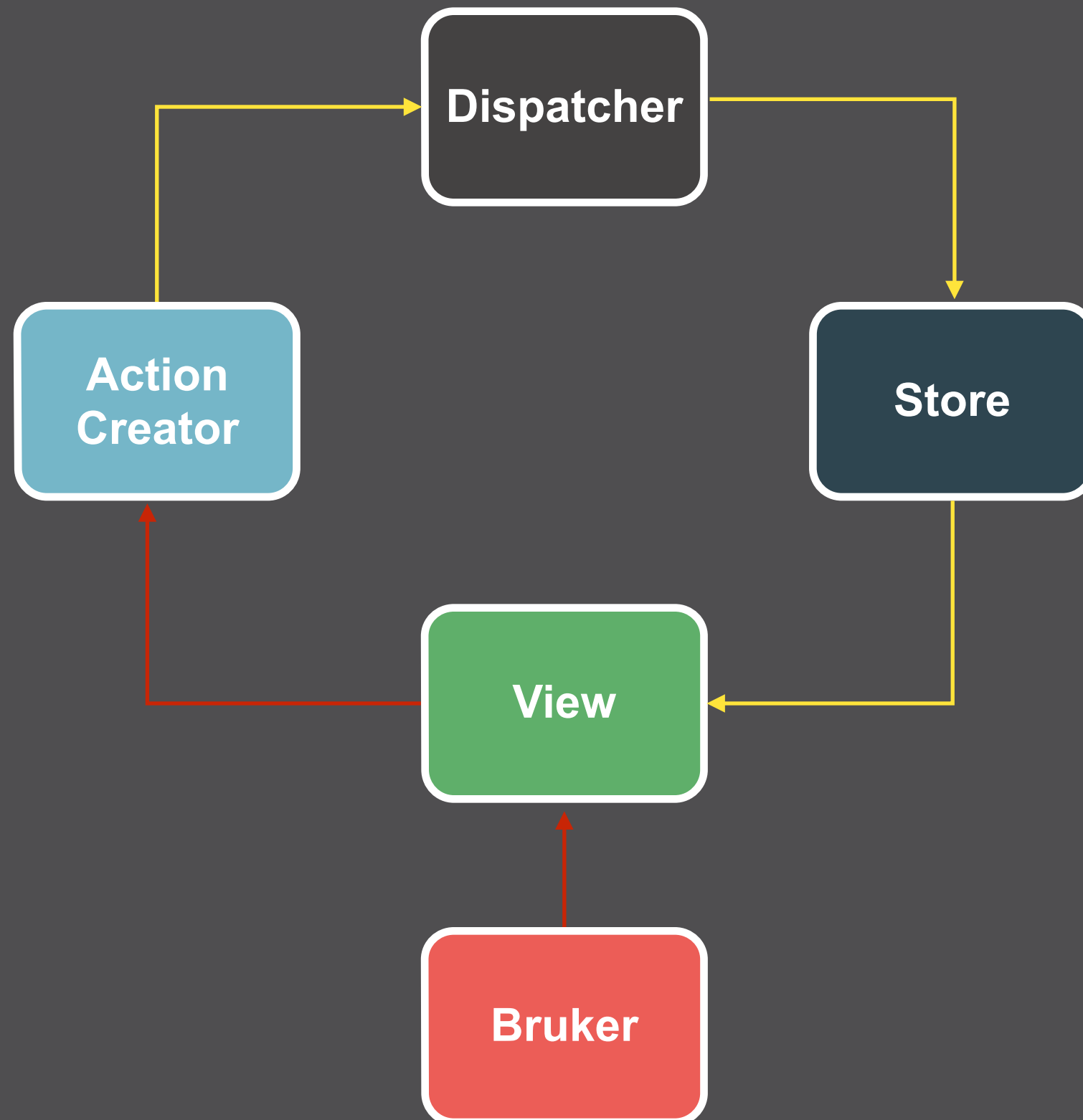
Dataflyten går kun én vei



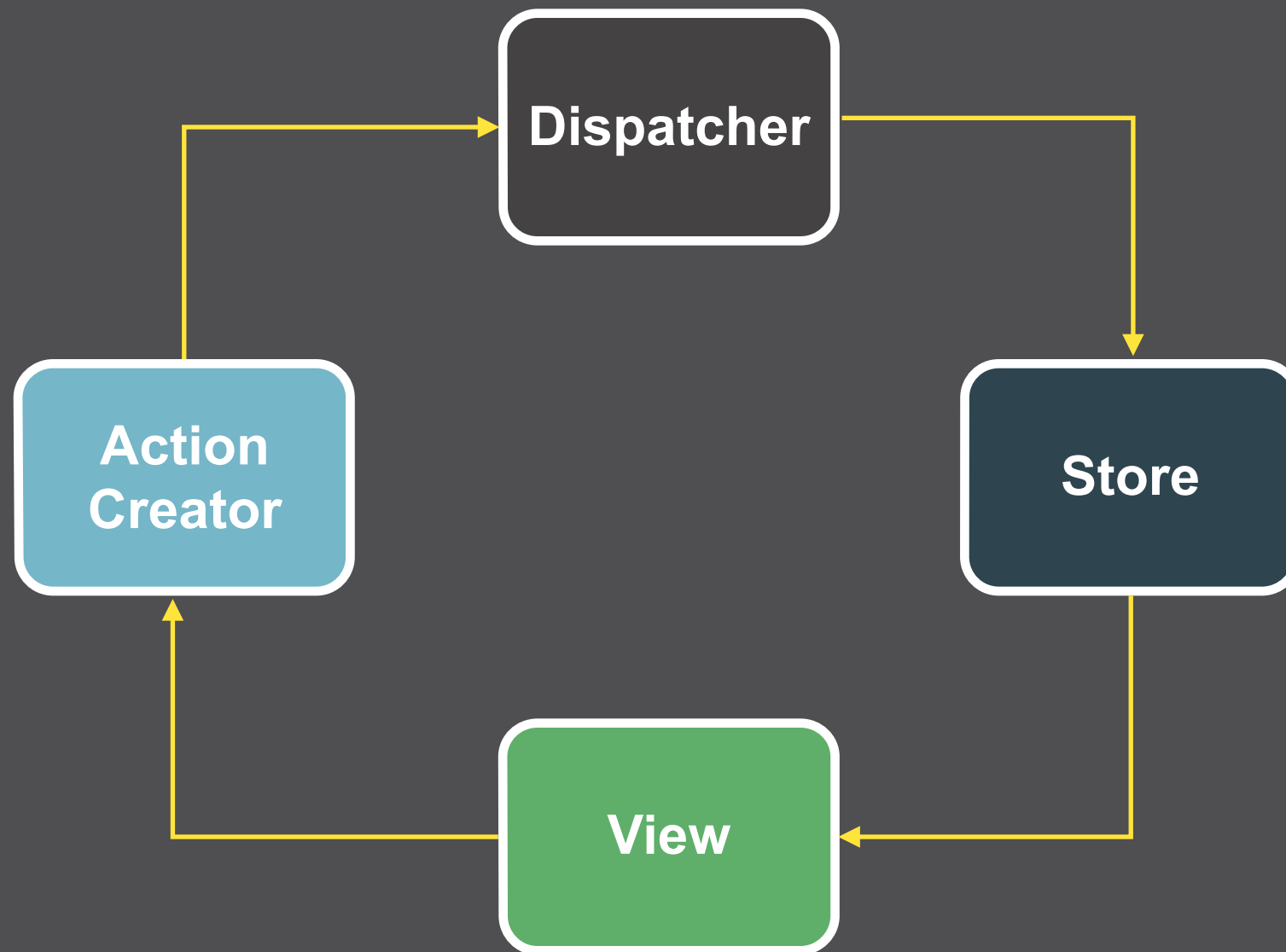
Hvor kommer data fra?



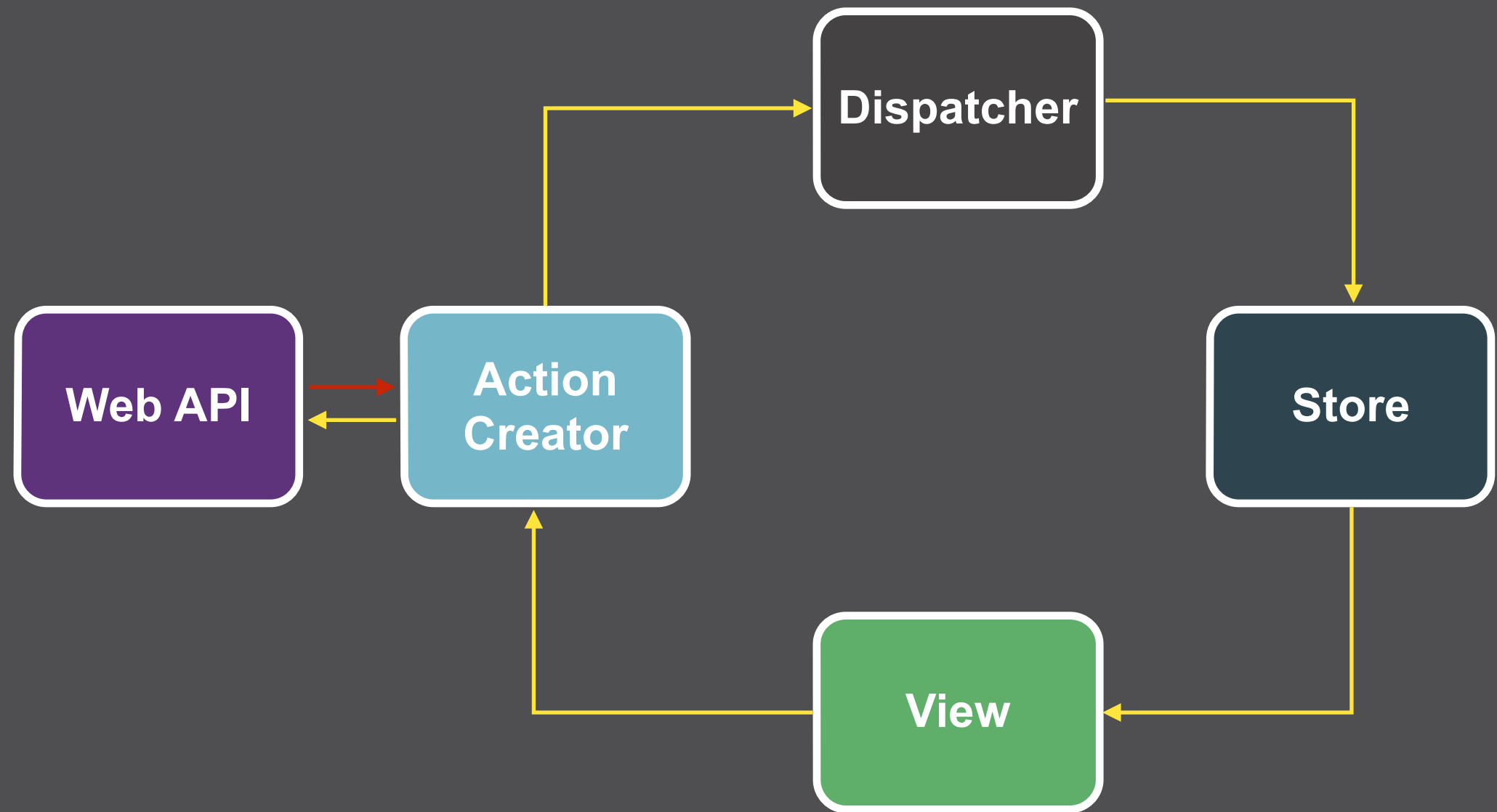
Hvor kommer data fra?



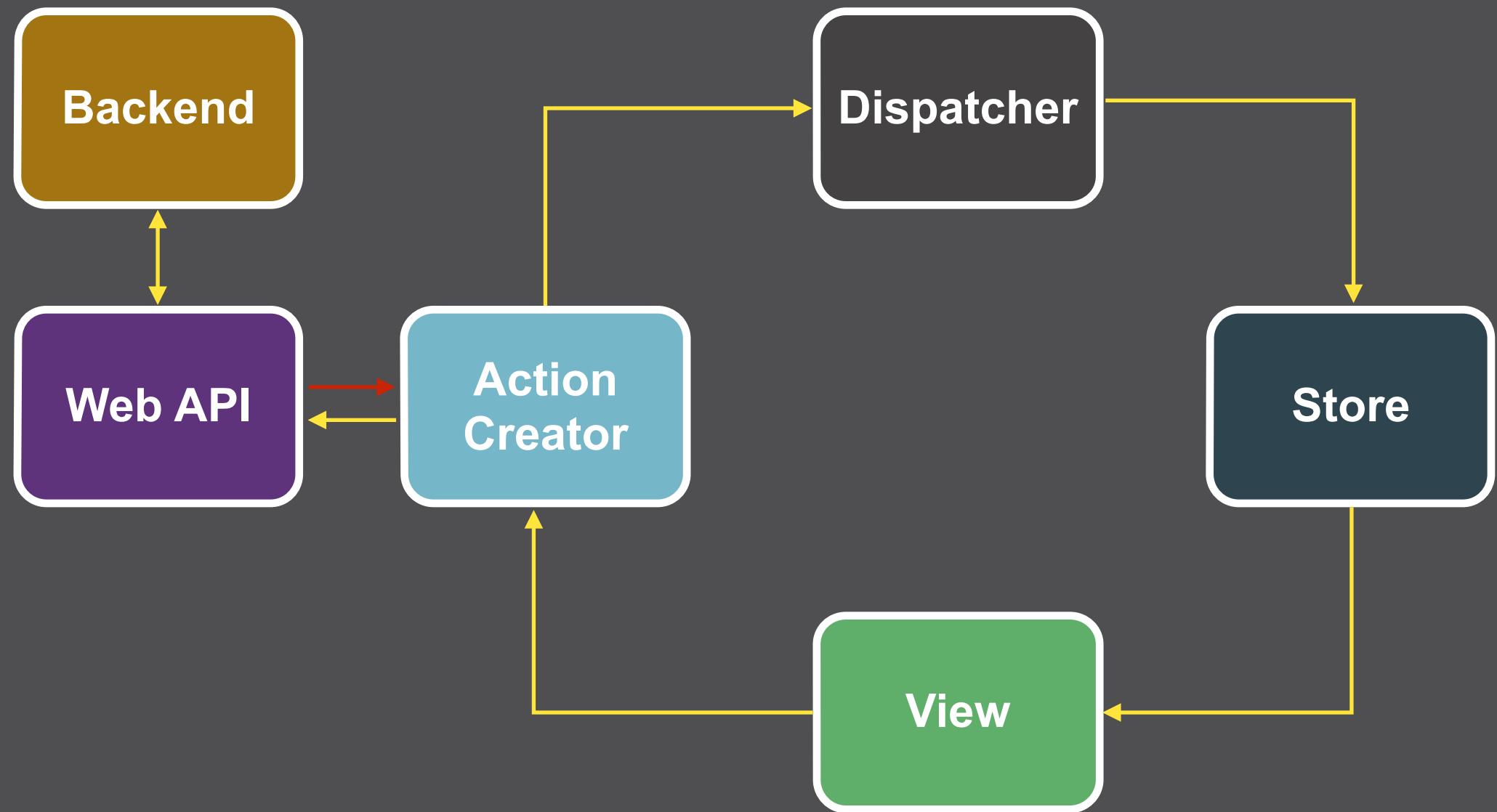
Data fra backend?



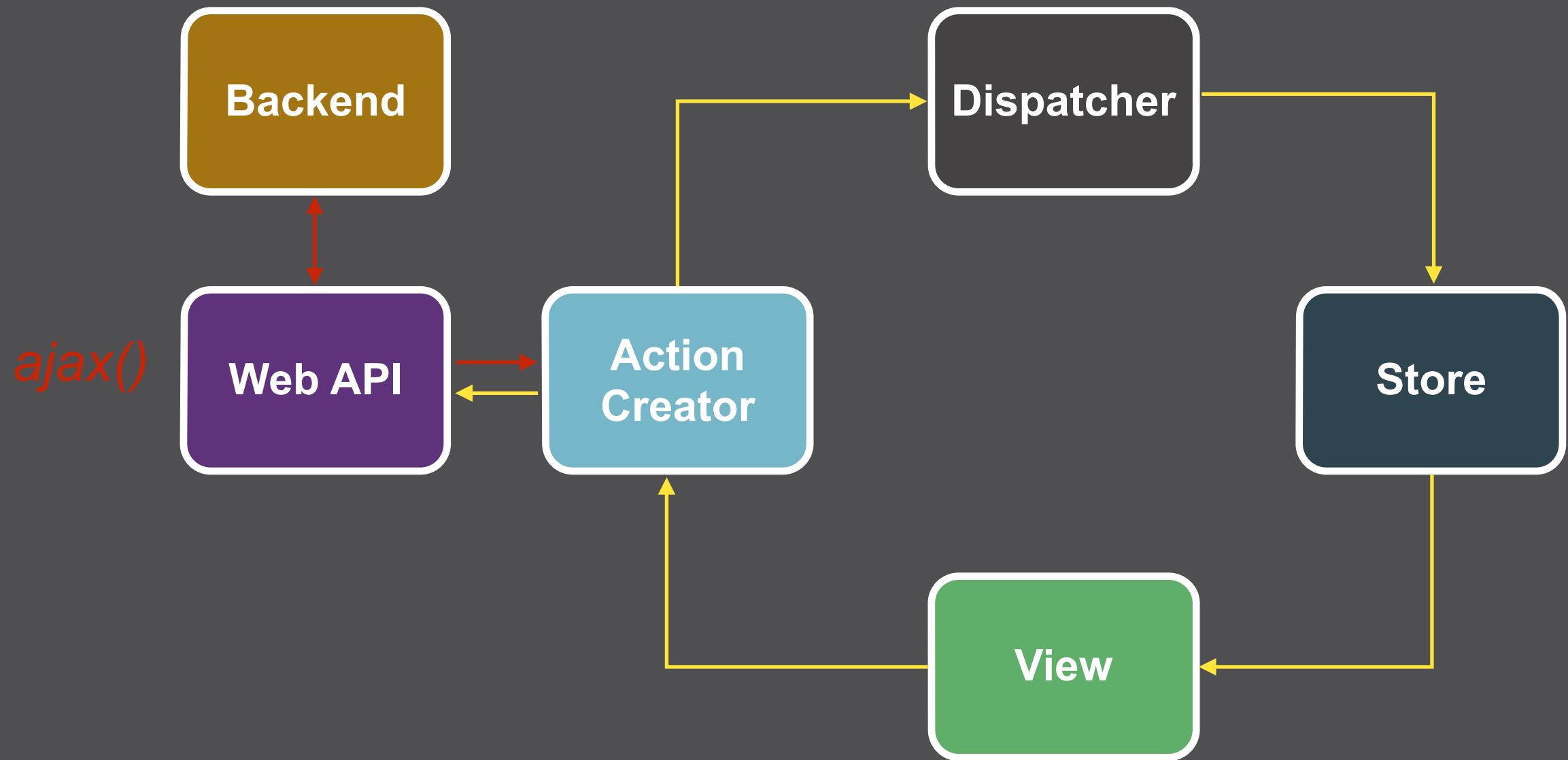
Data fra backend?



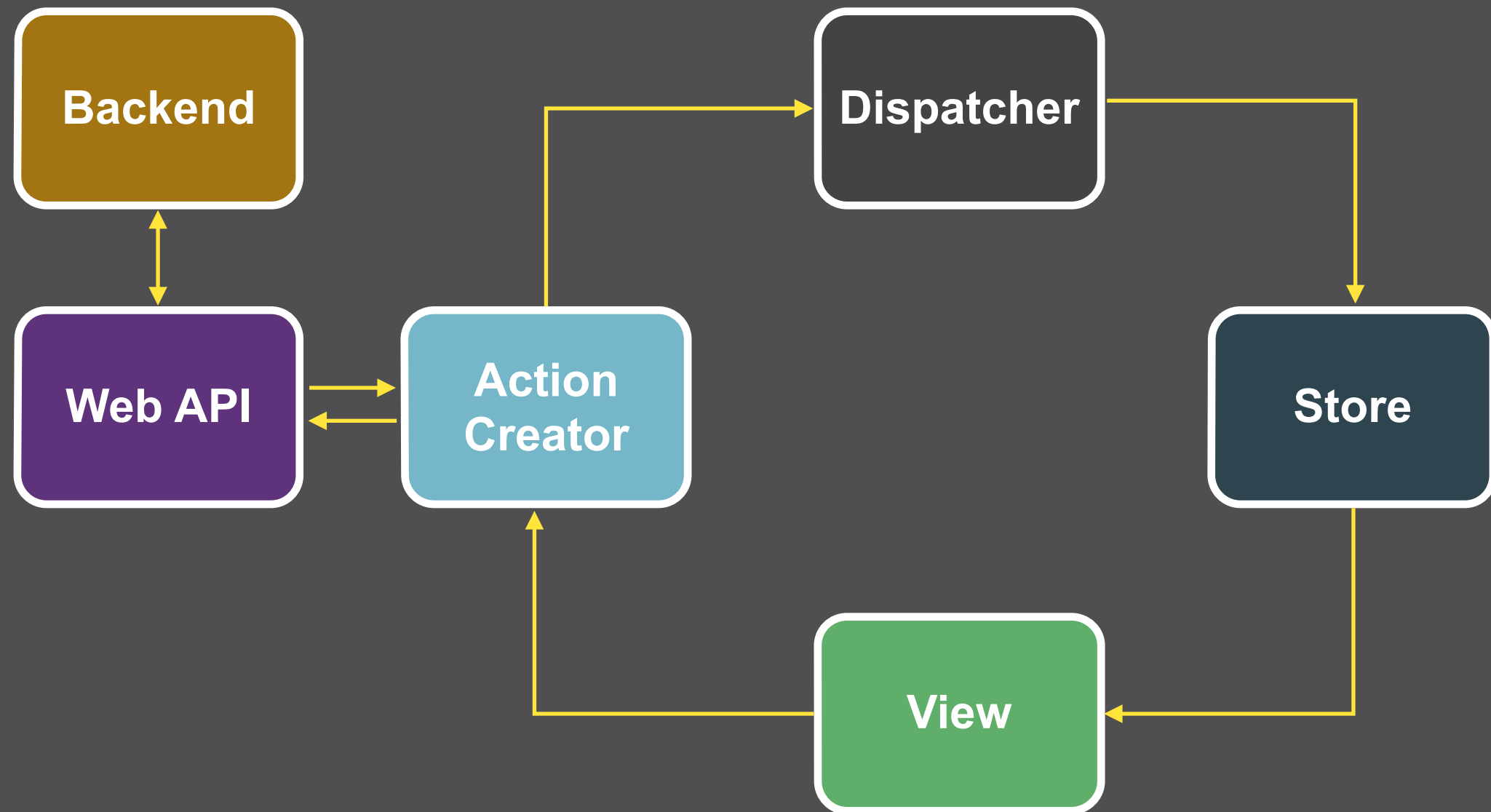
Data fra backend?



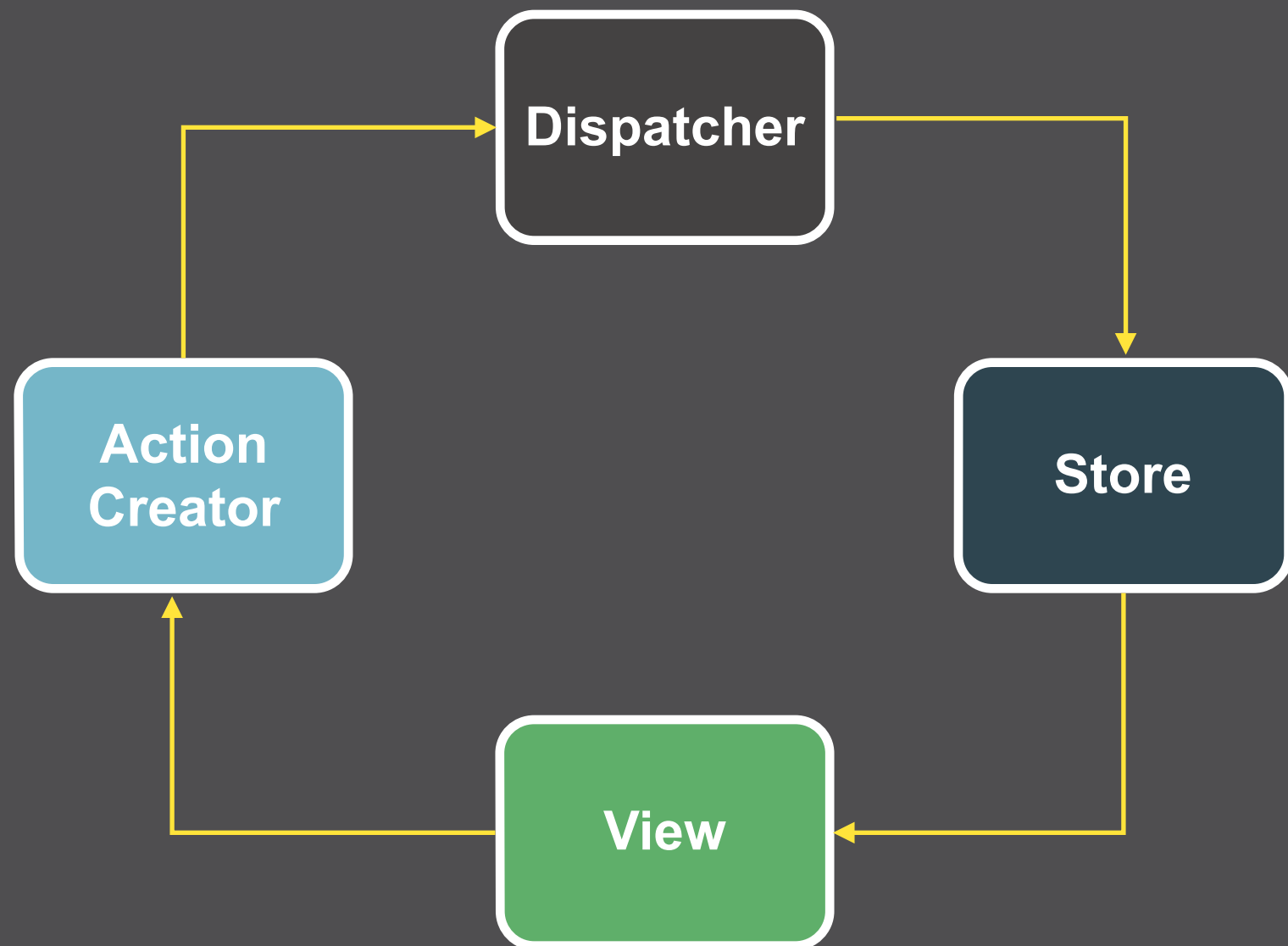
Data fra backend?



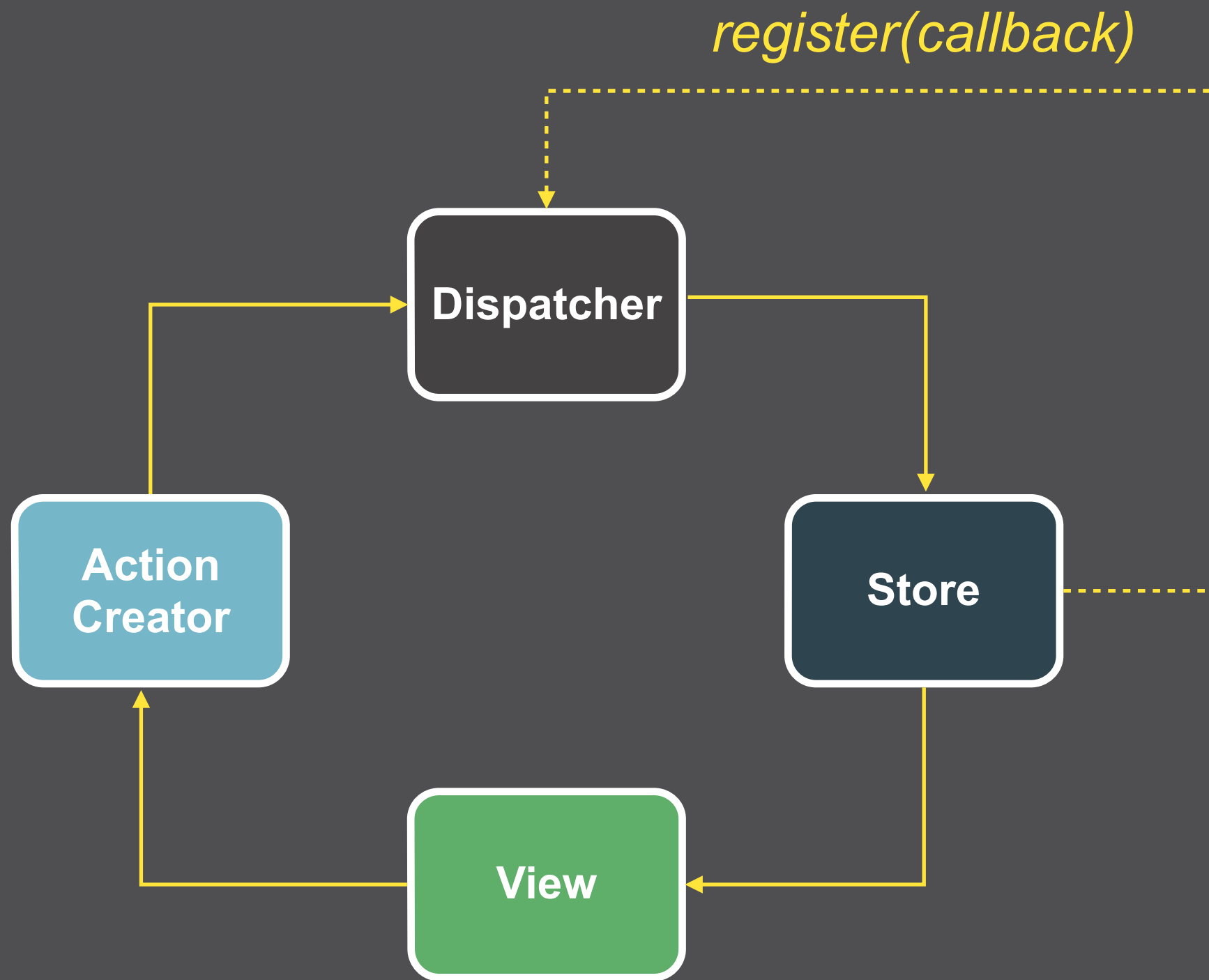
Hele arkitekturen

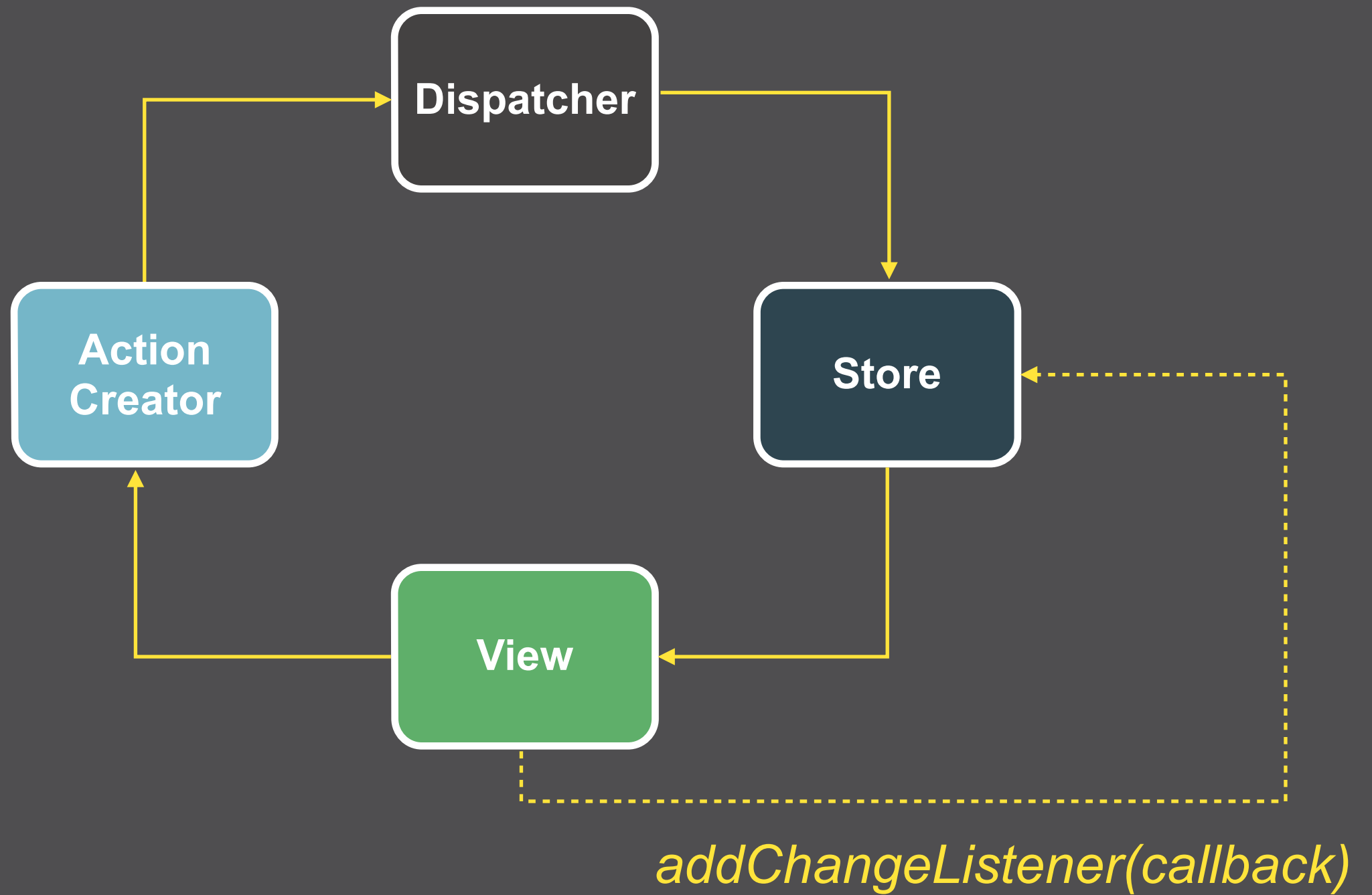


Mental modell



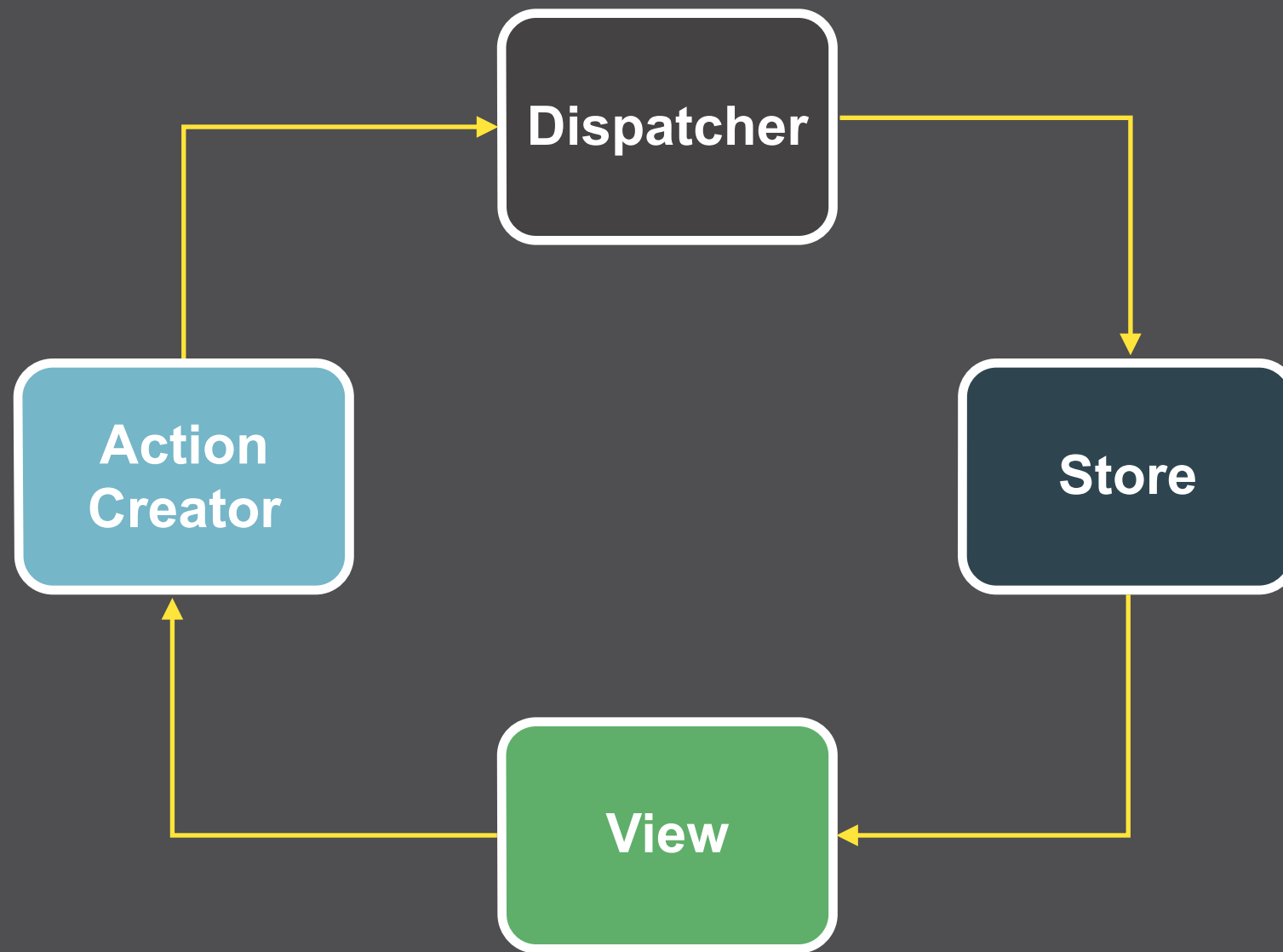
Hvordan?



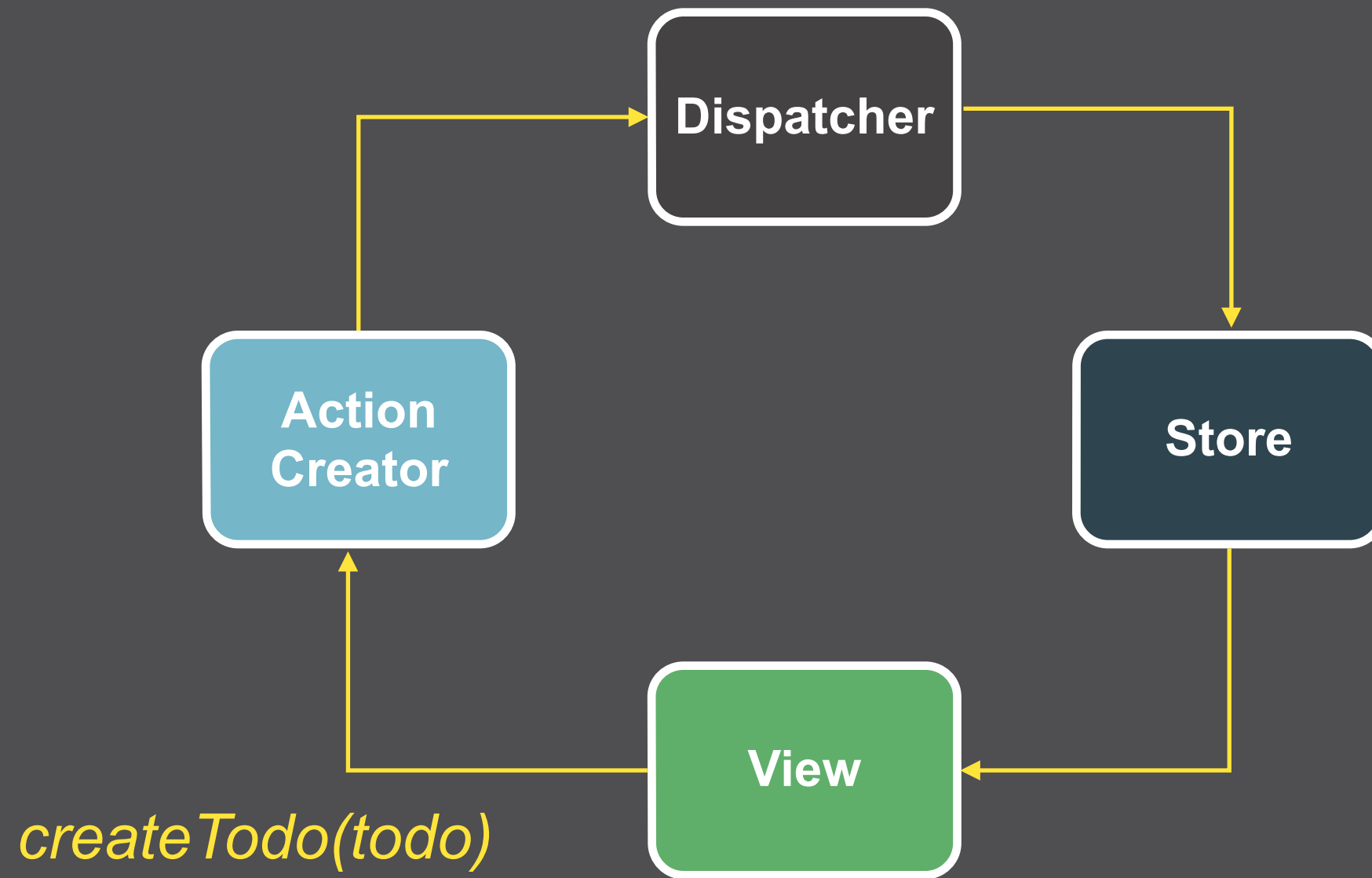


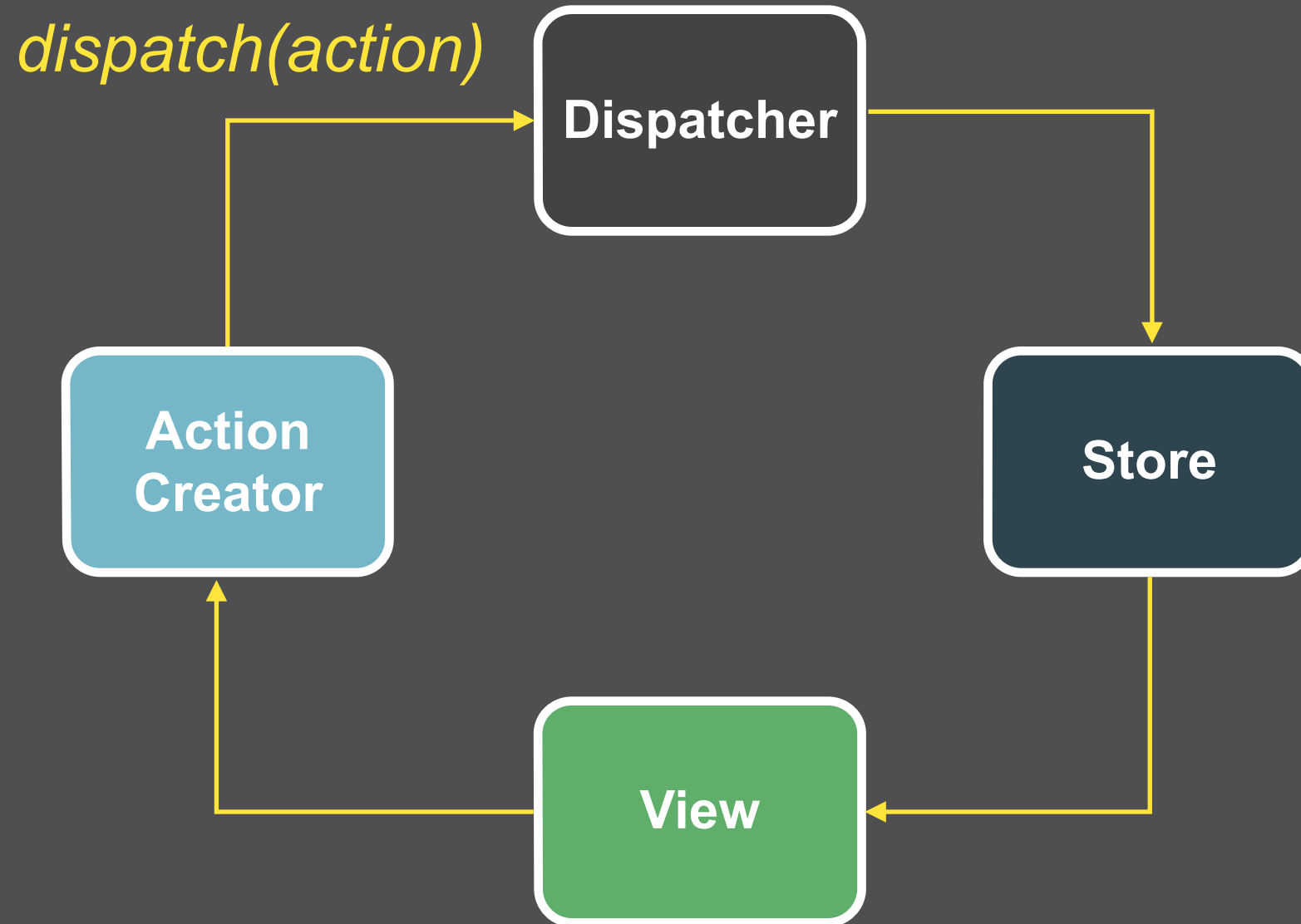
Eksempelscenario

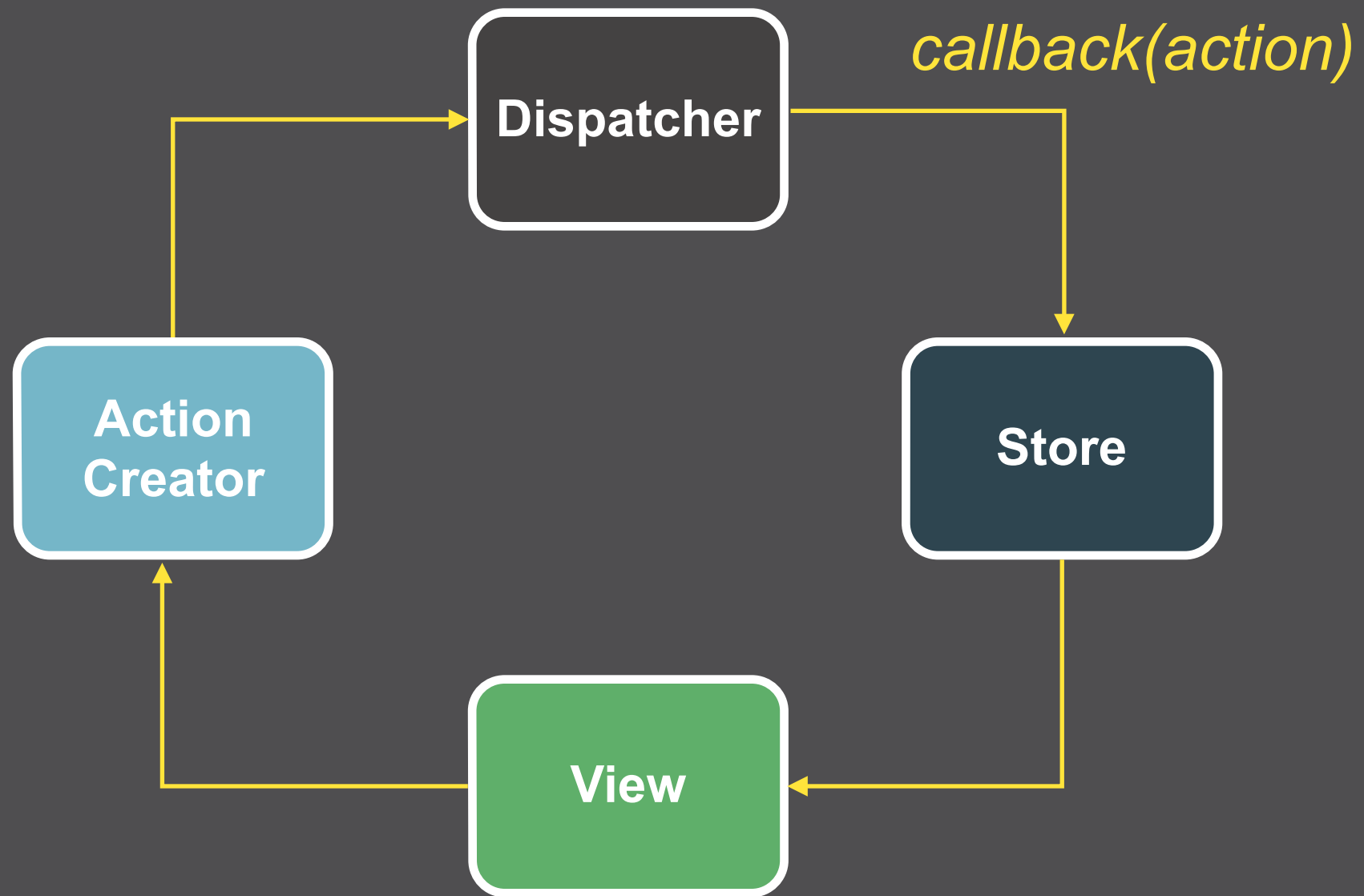
En Todo-App!

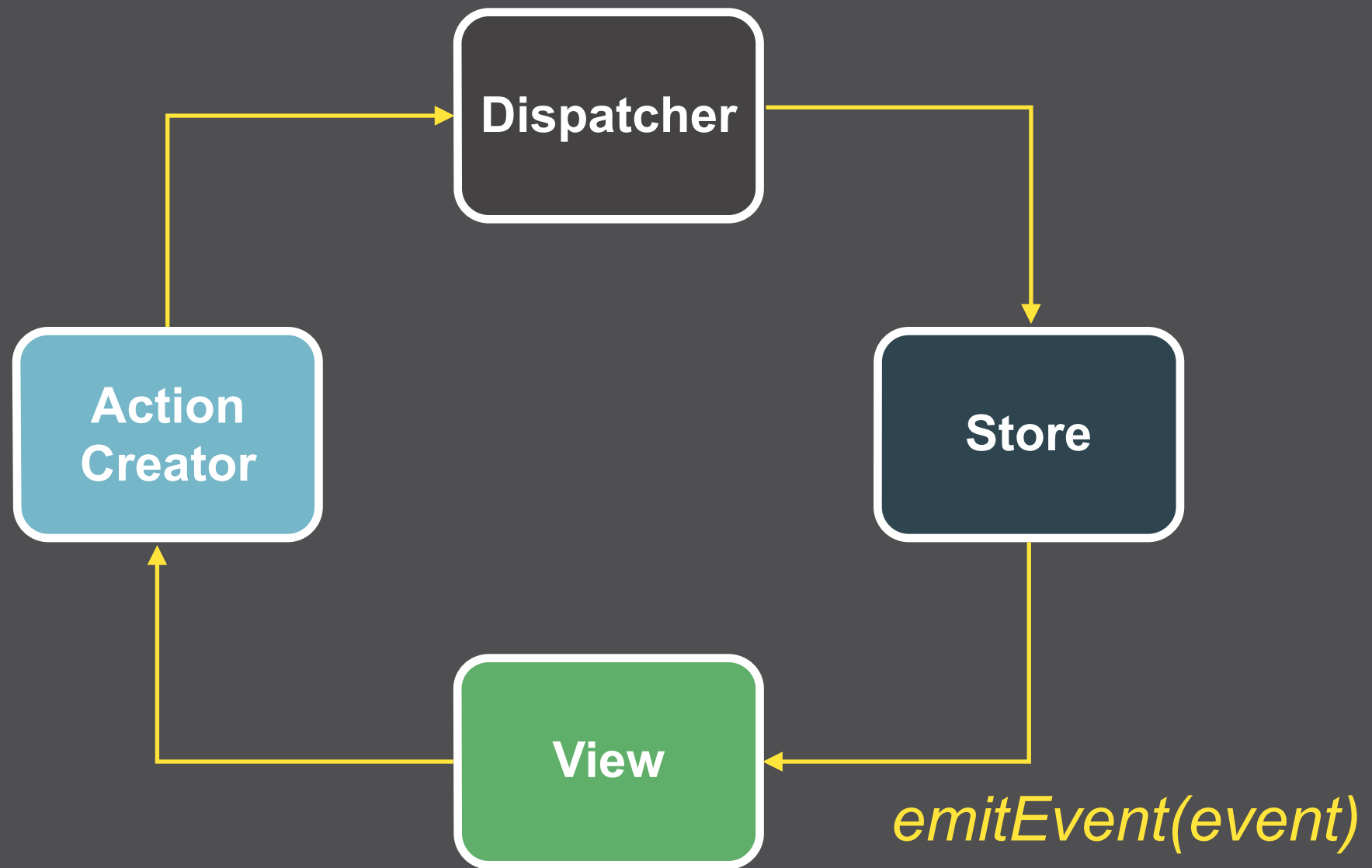


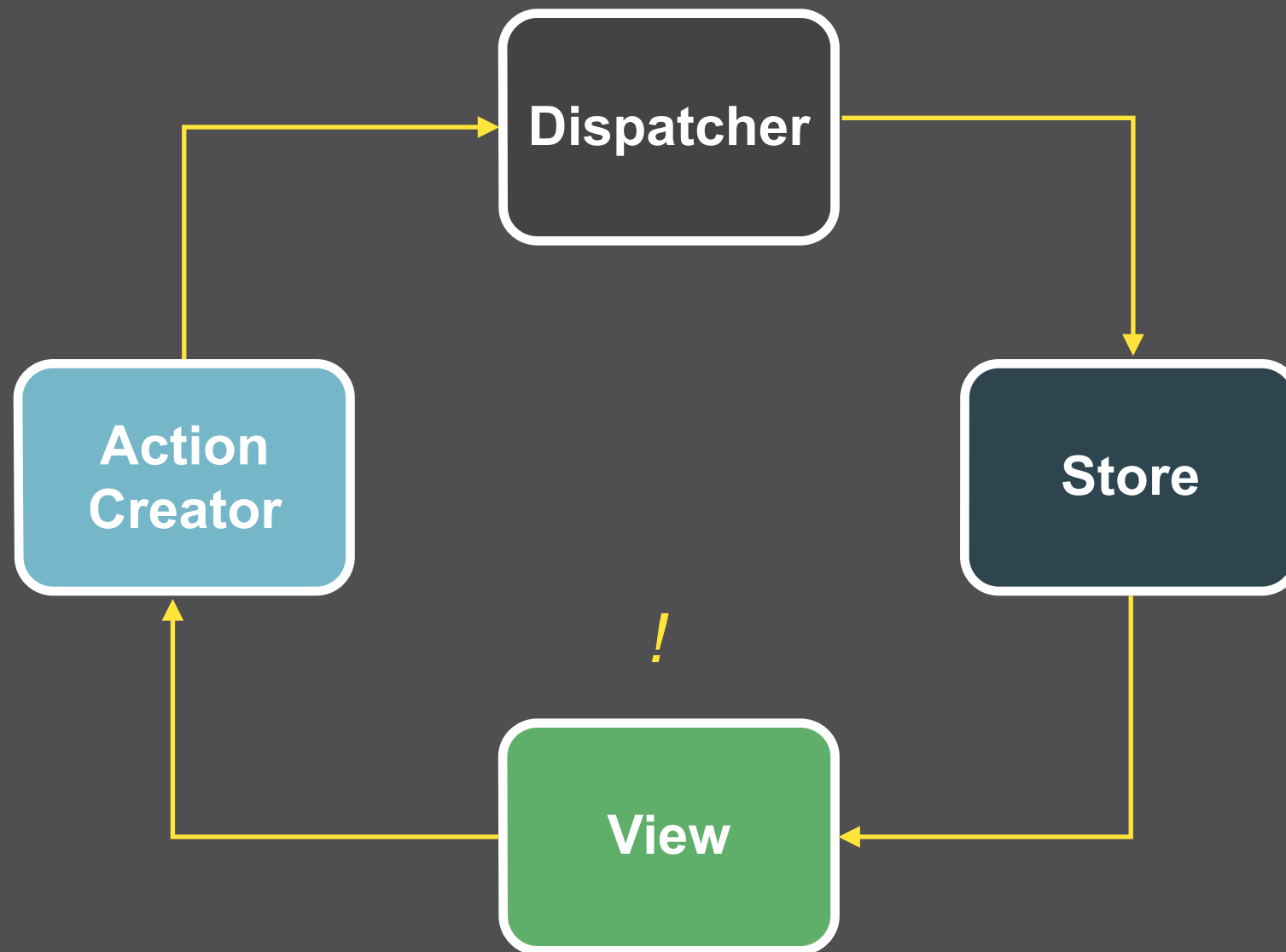
<bruker trykket på "Lag ny todo">

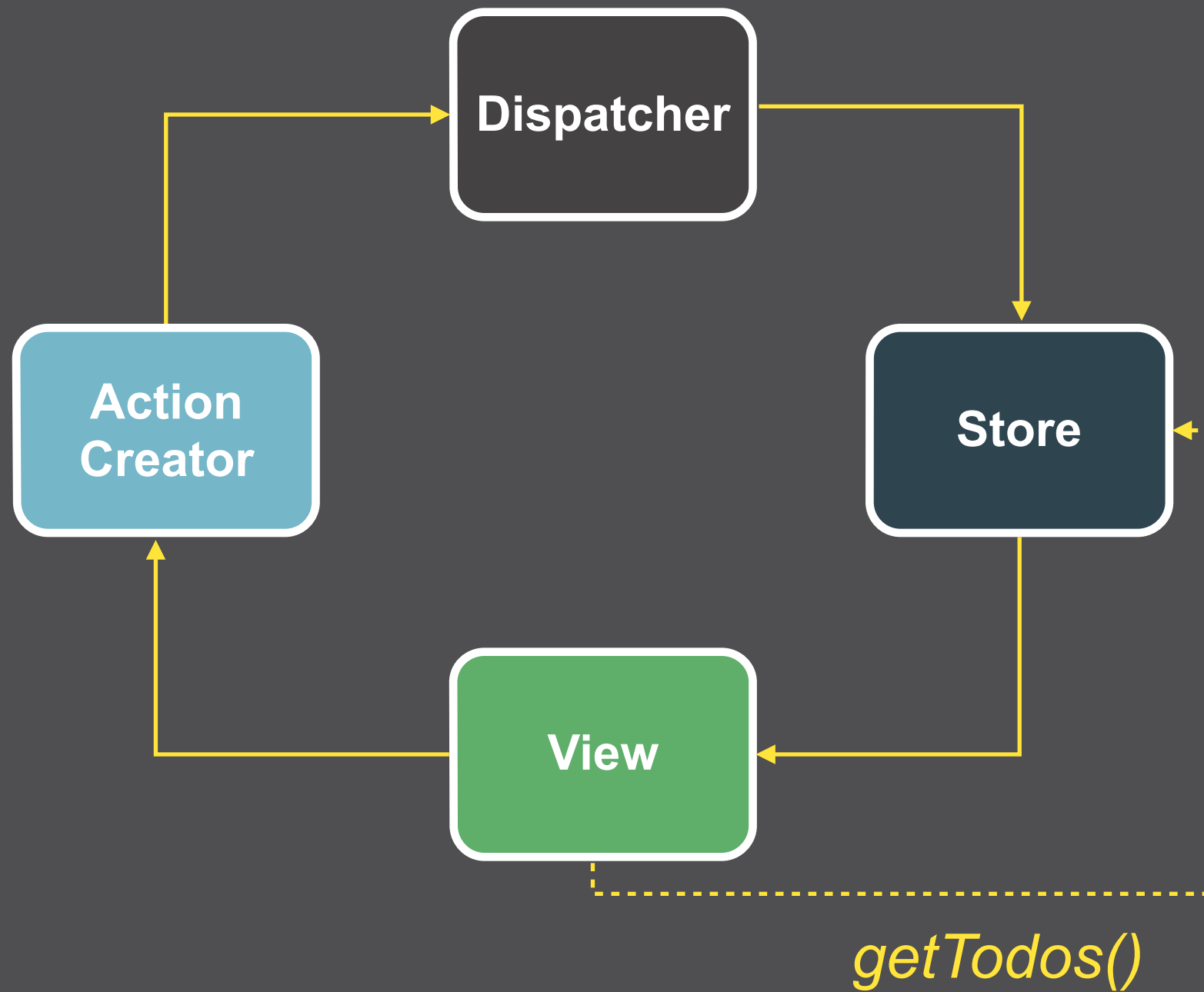


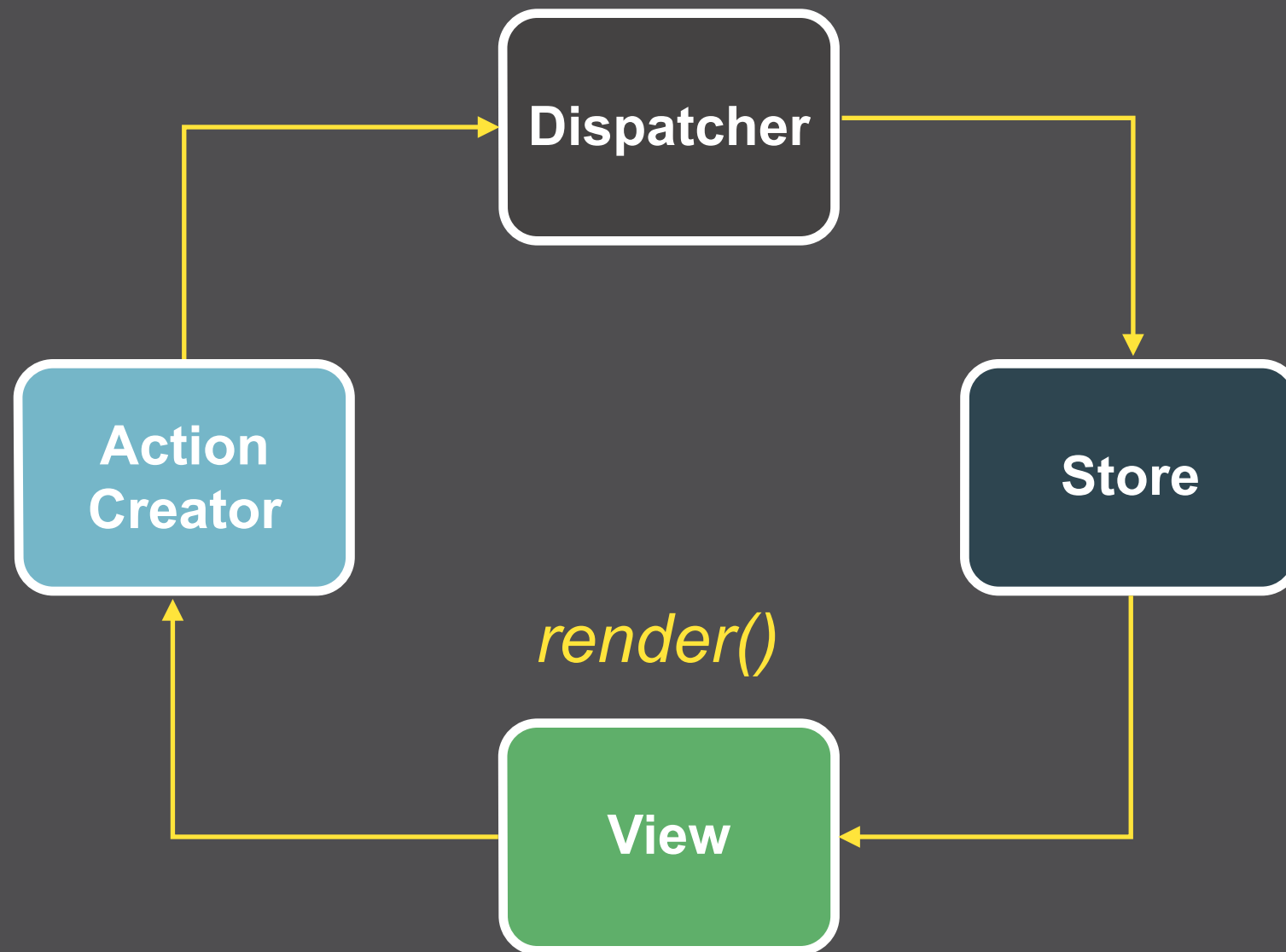


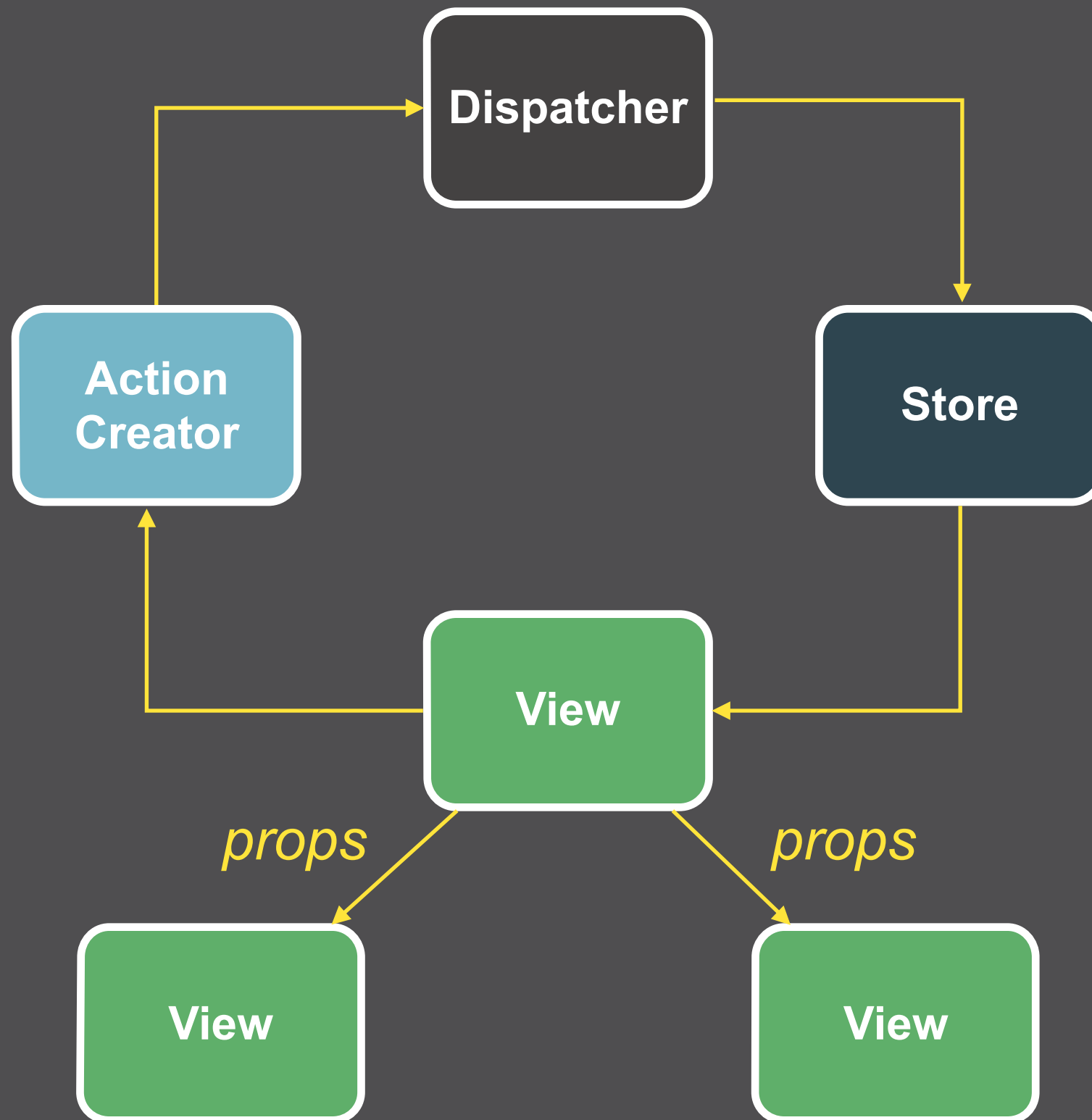


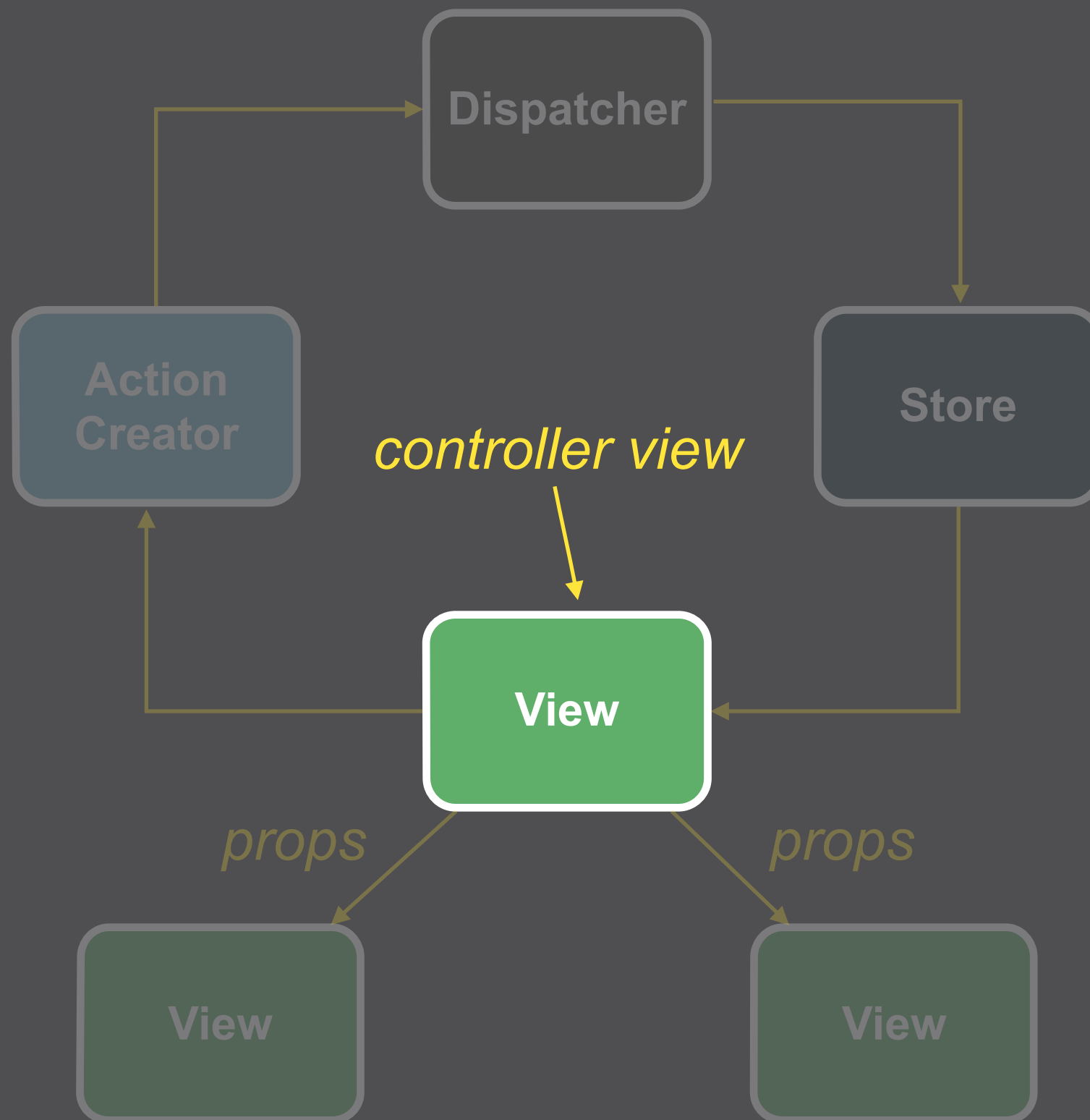




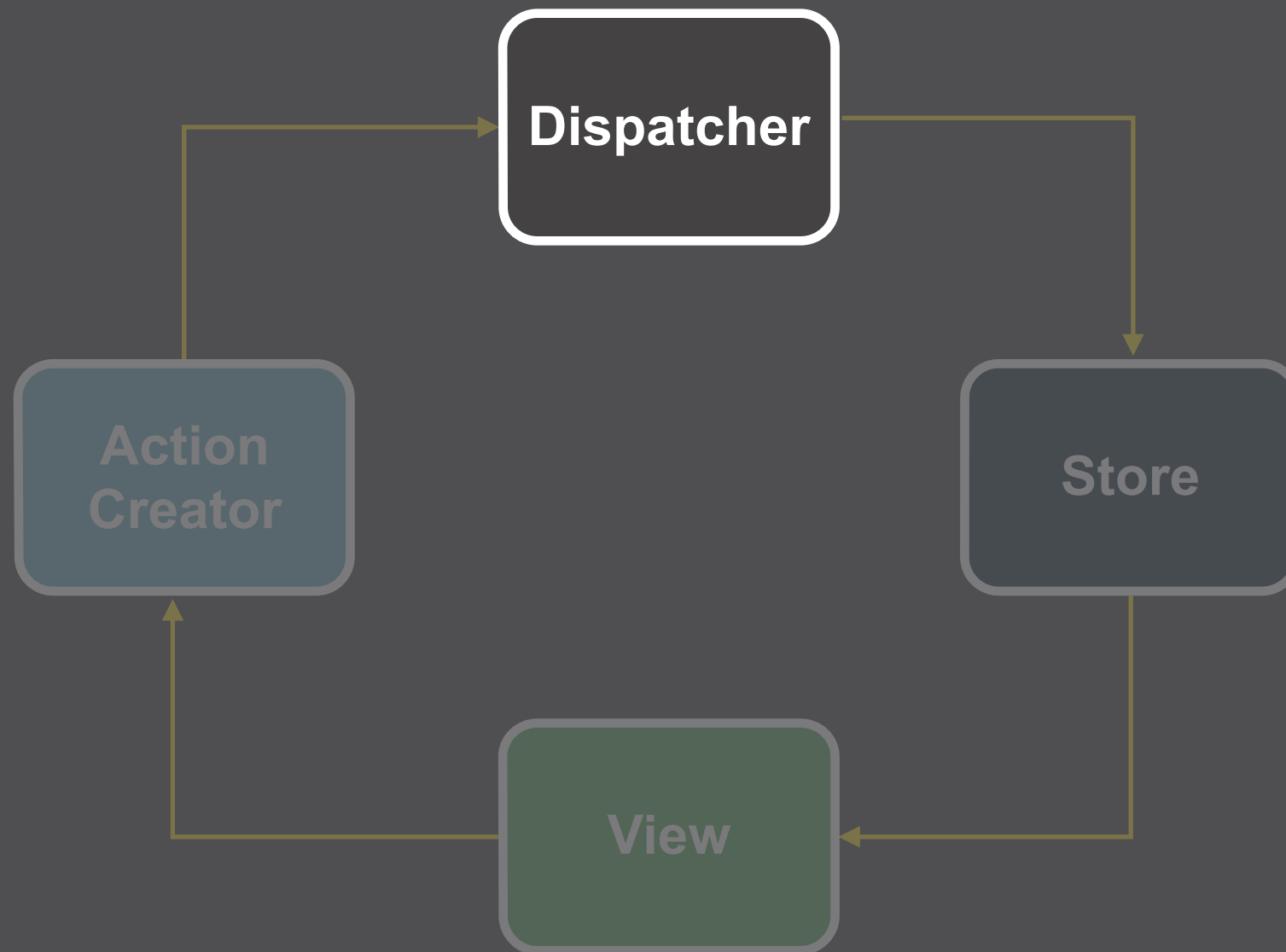


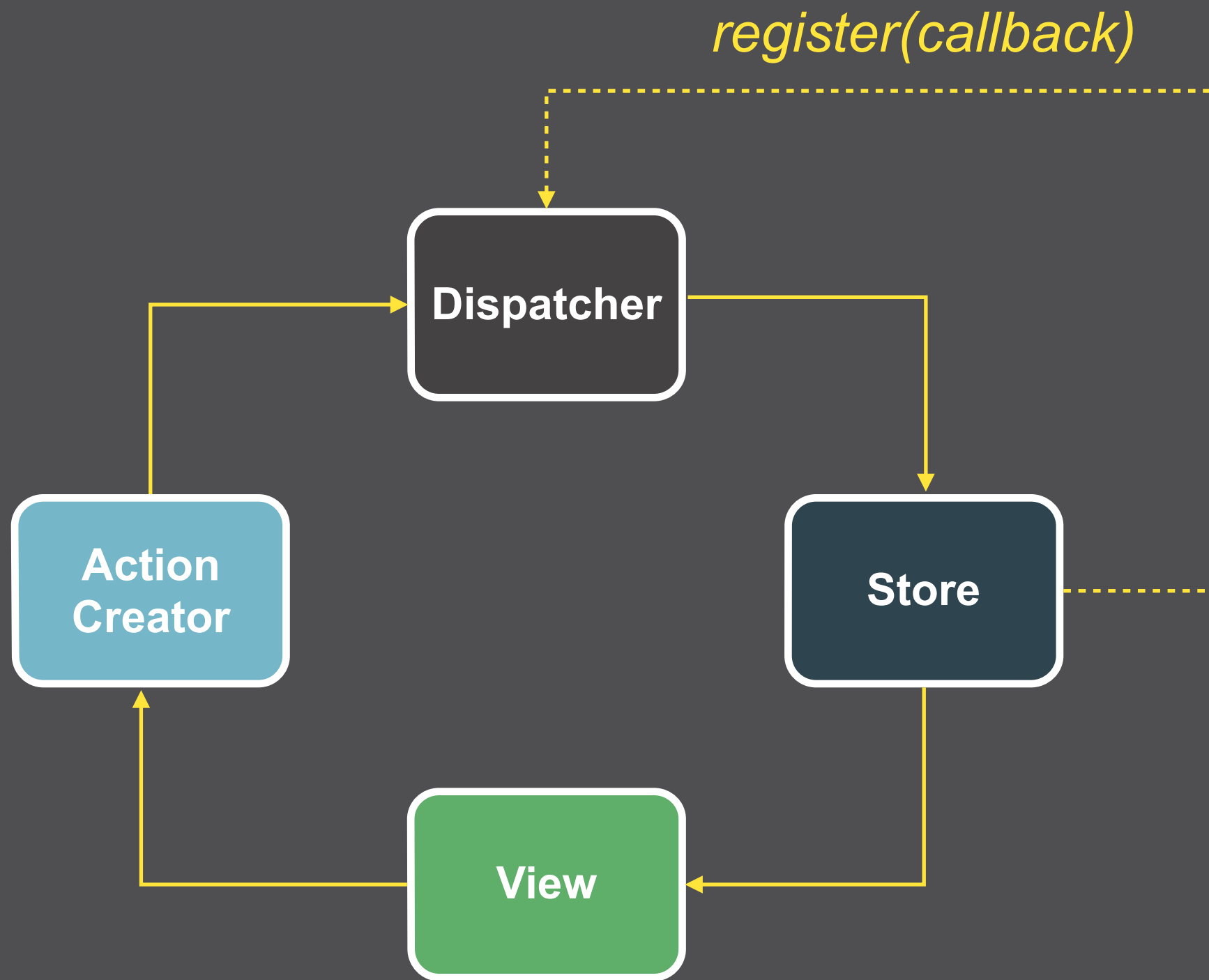




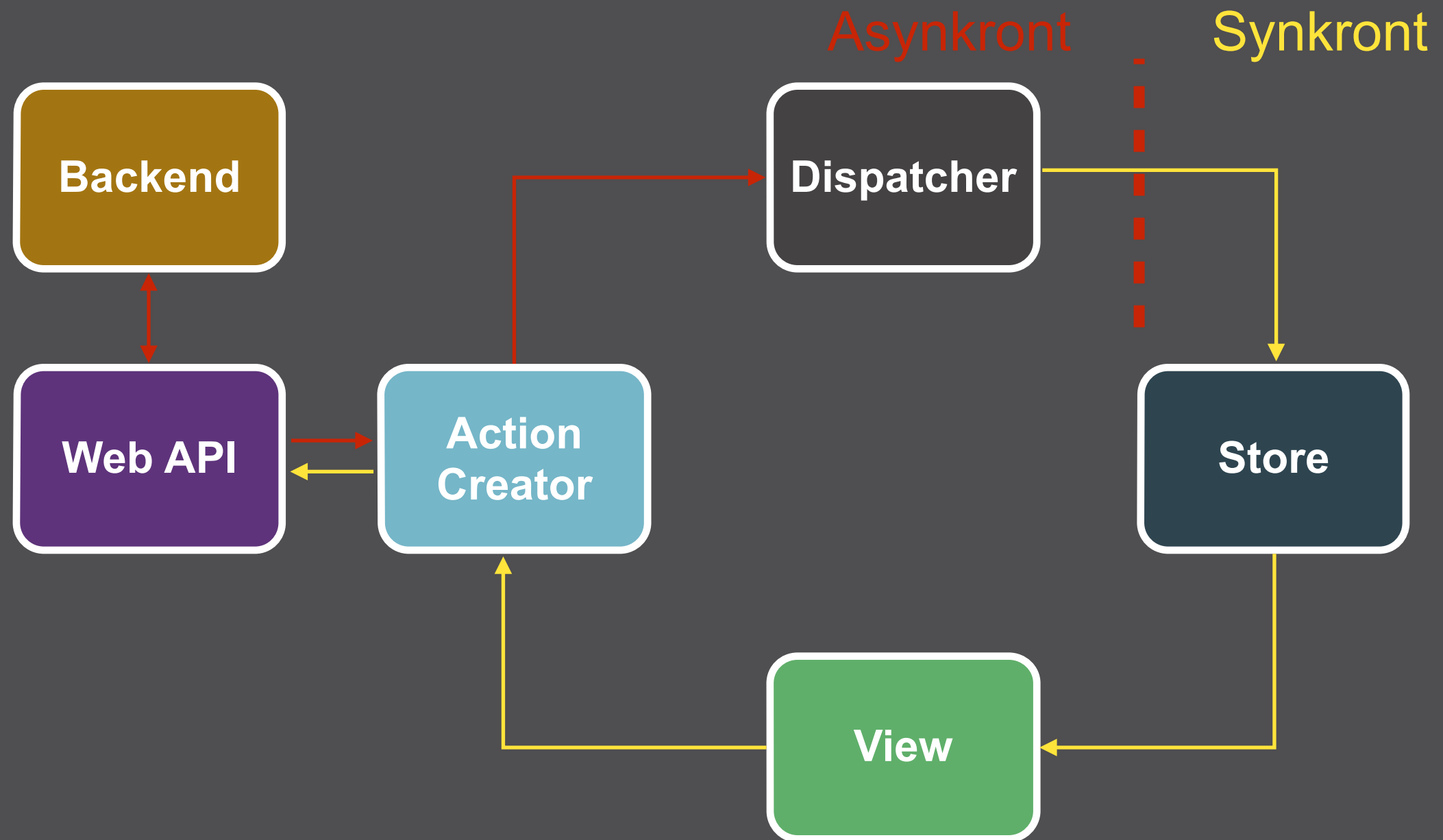


Centrale komponenter

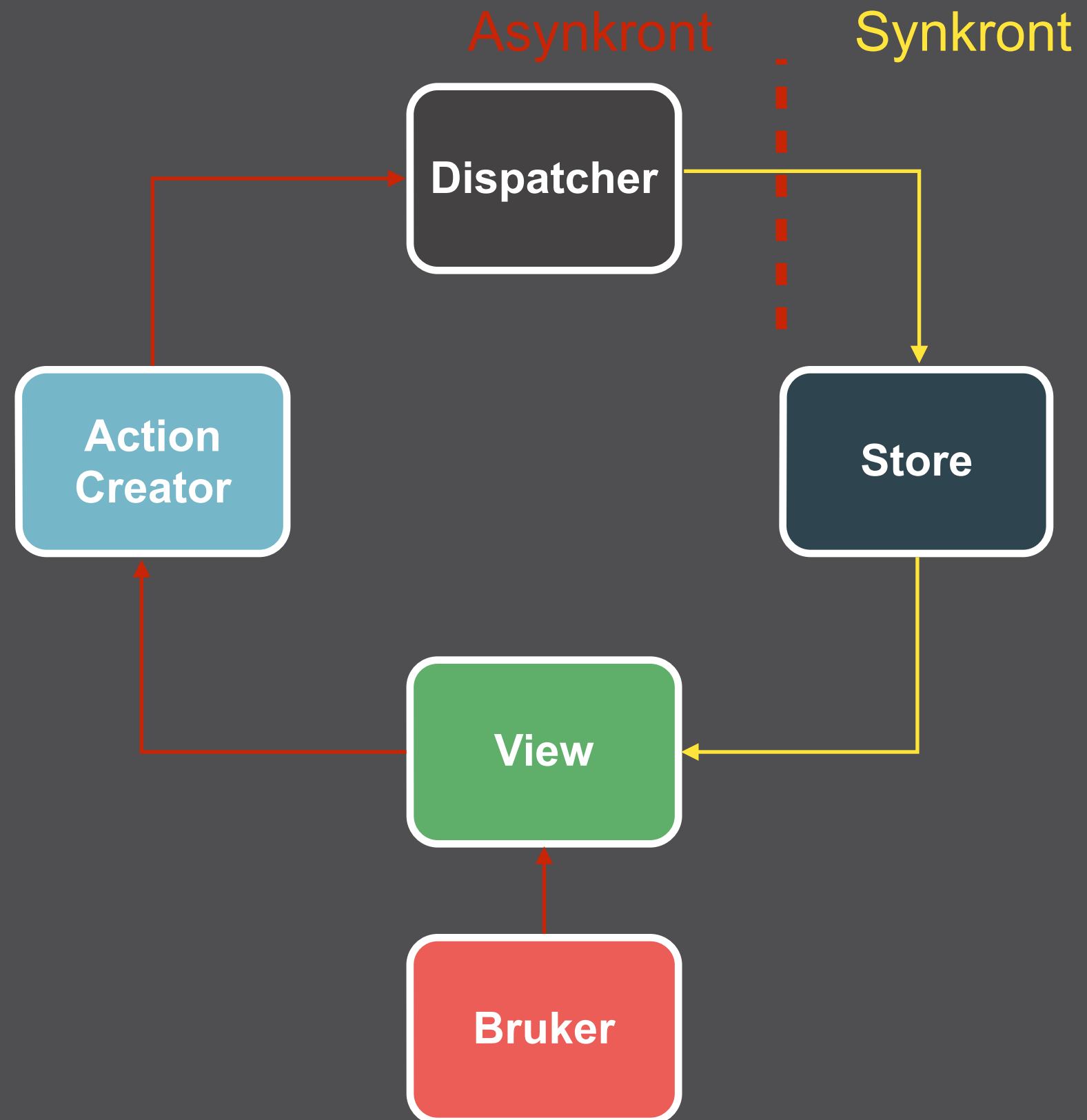




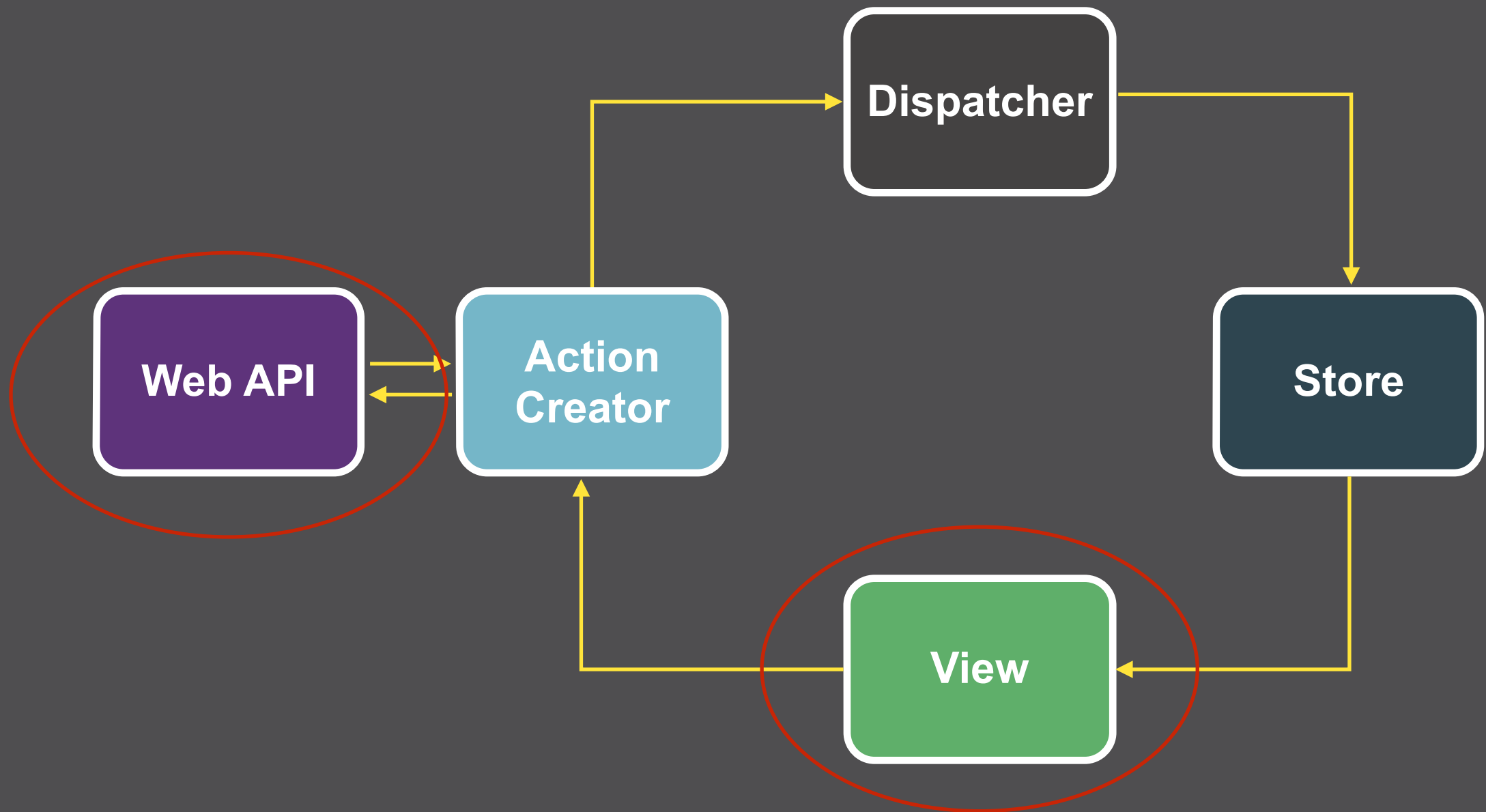
Async “barriere”



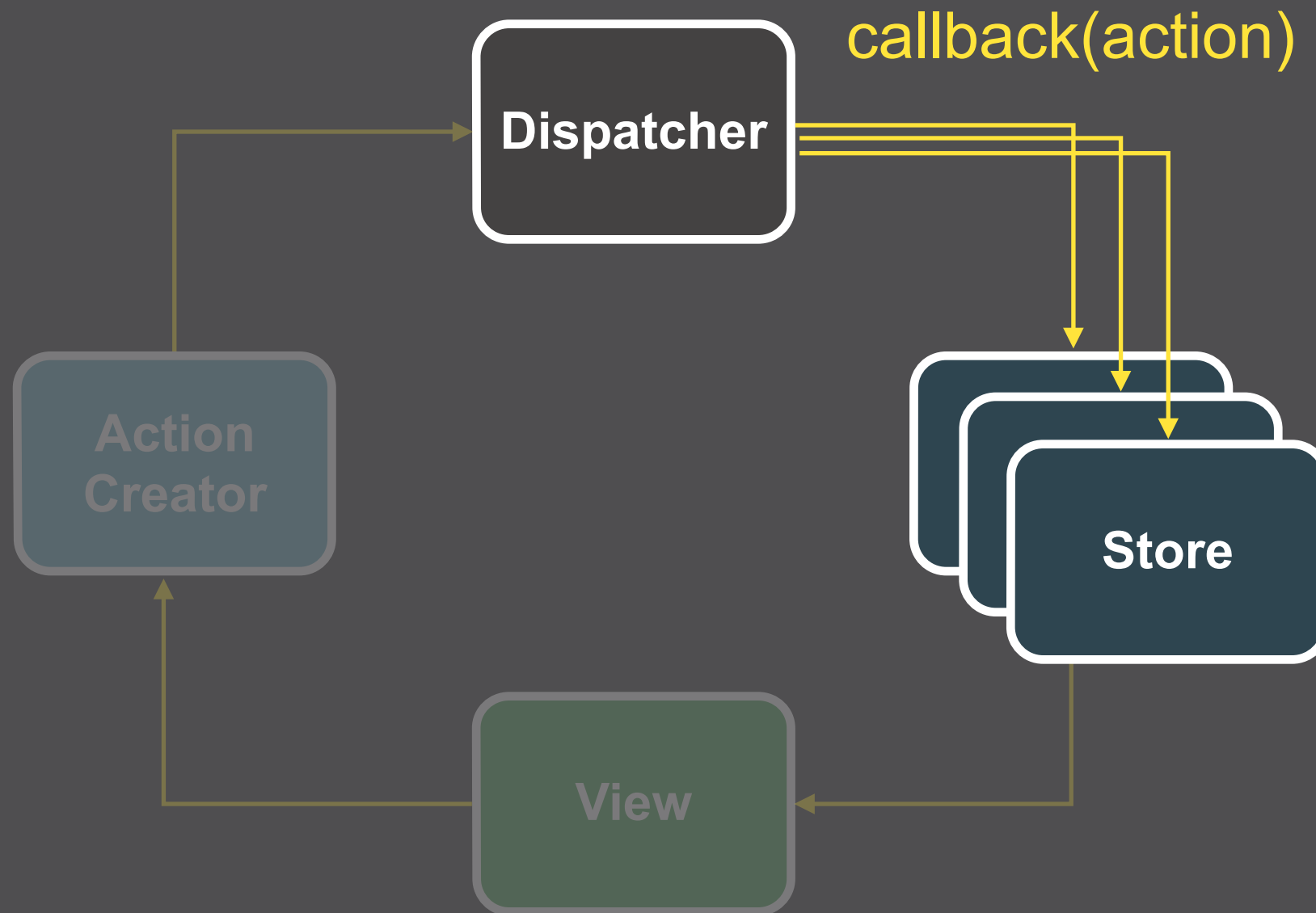
Async “barriere”



Isolering av async



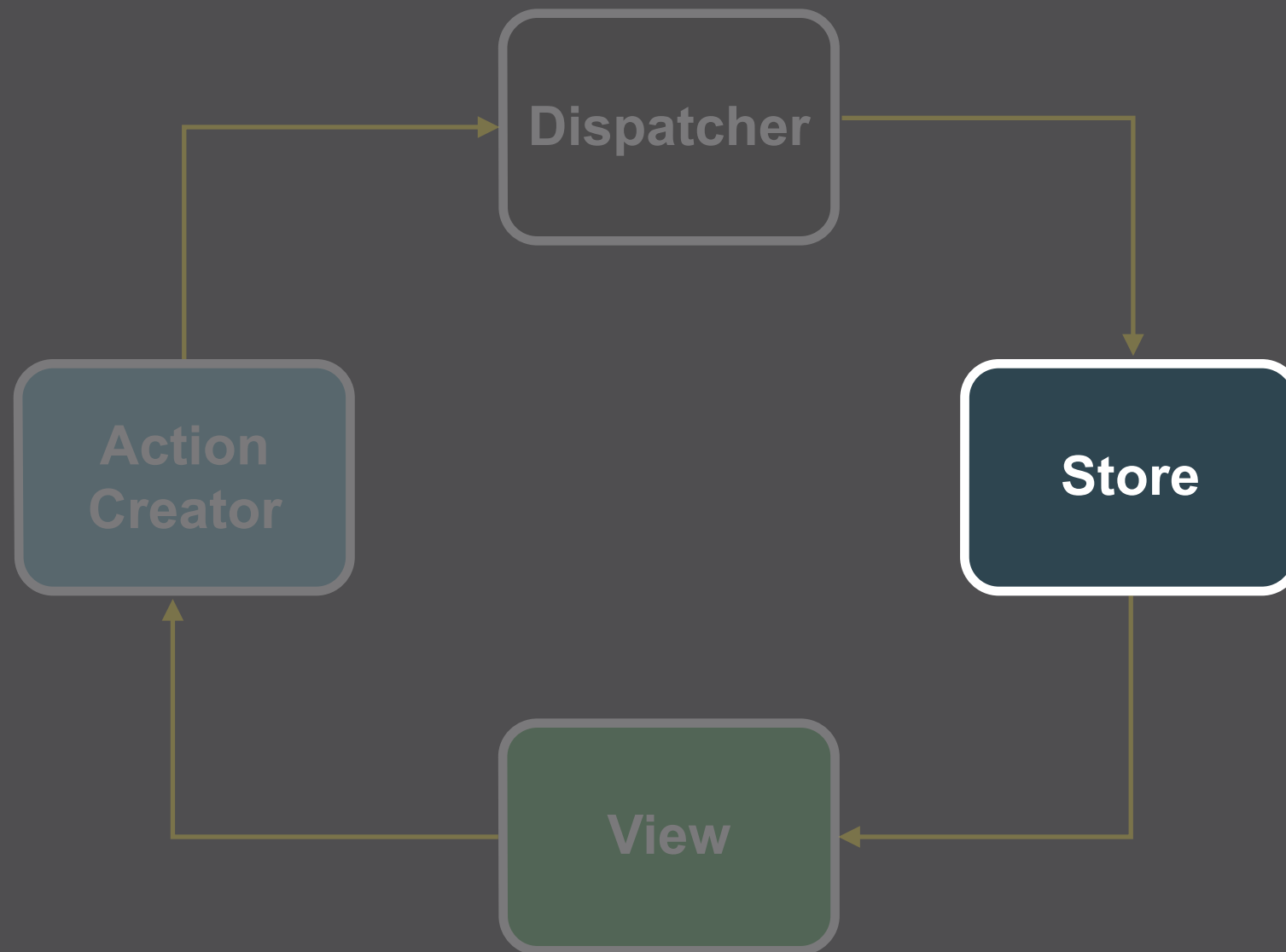
Broadcasting



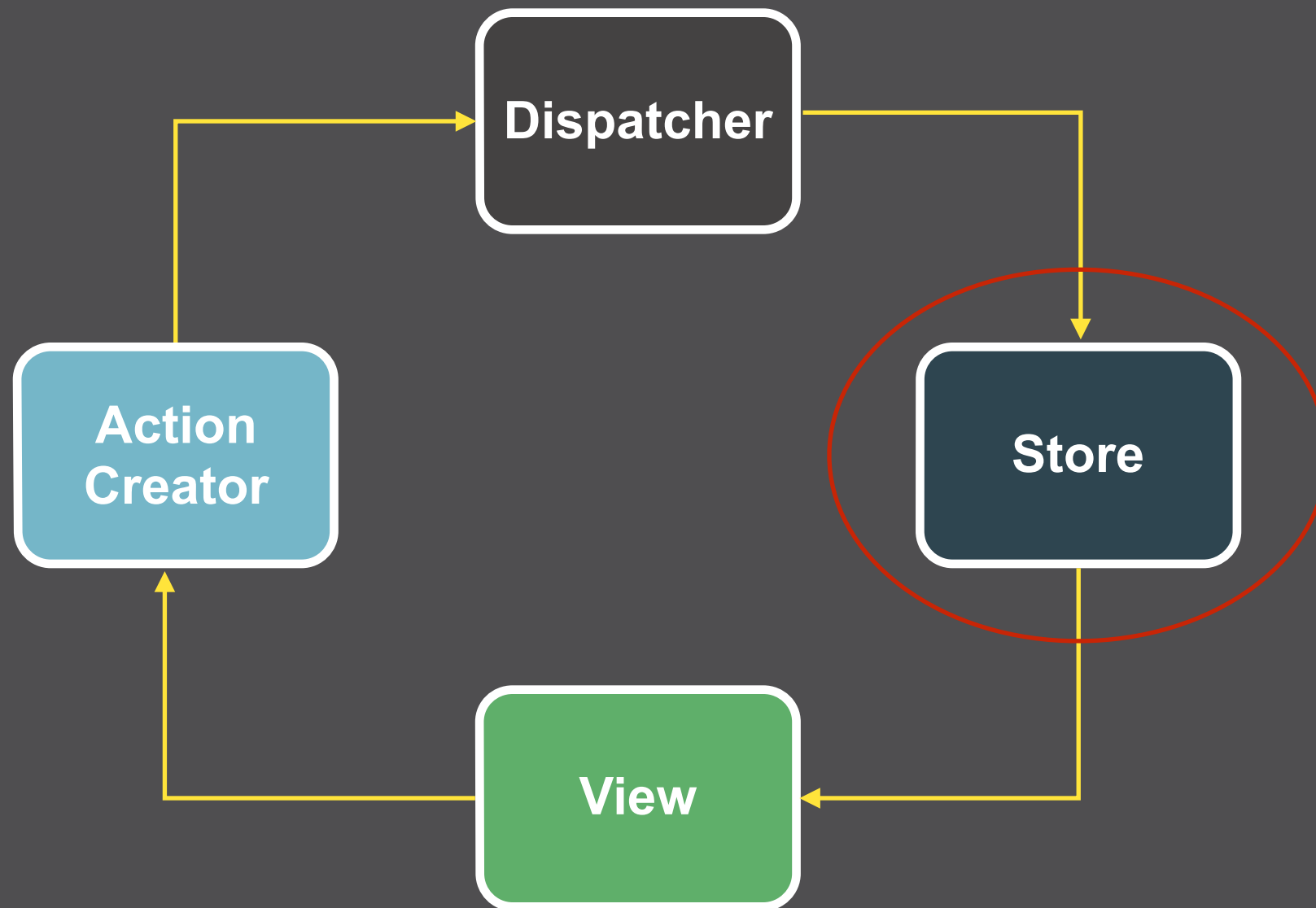


Dispatcher

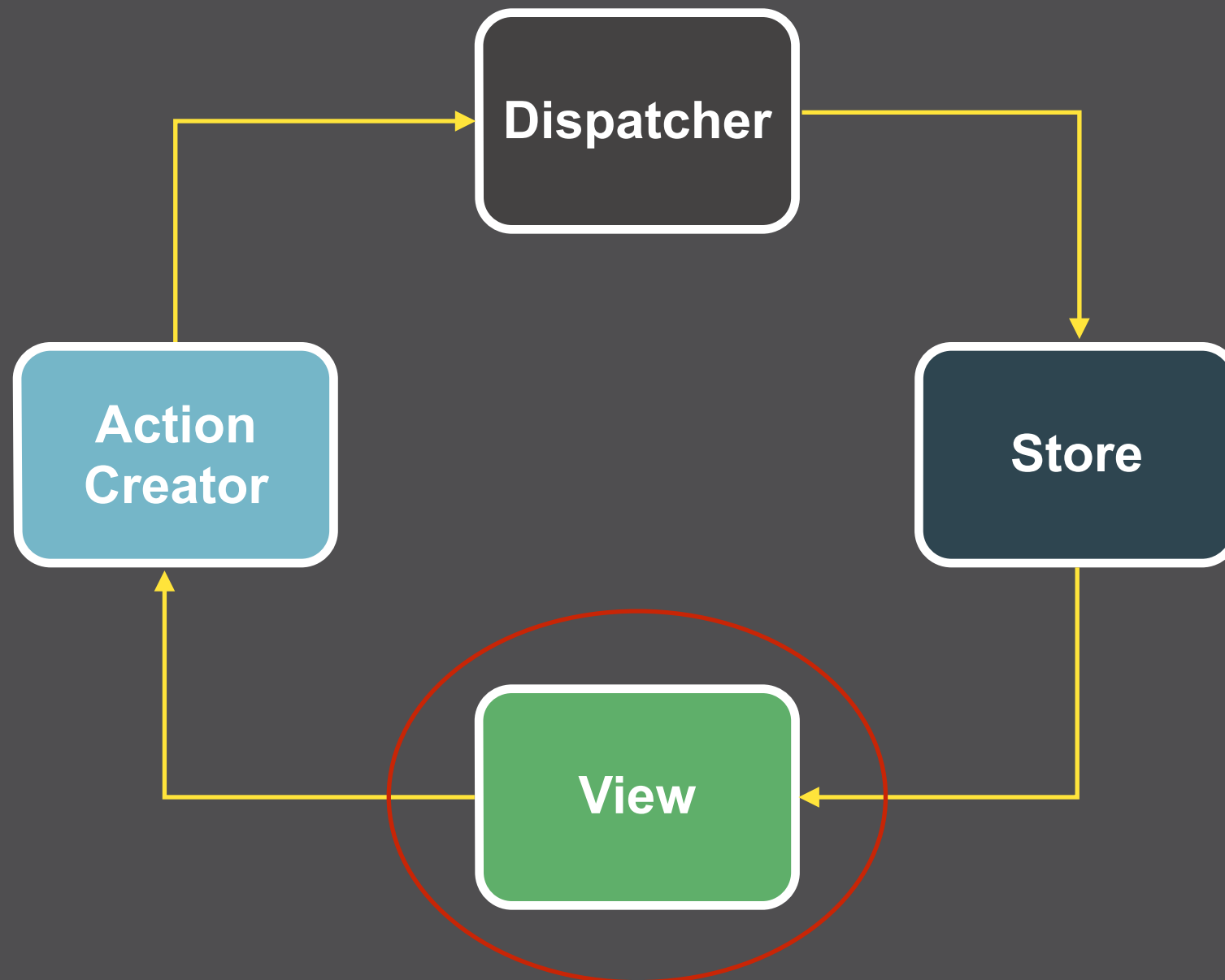
- Register over callbacks i stores
- Kan håndtere avhengigheter mellom stores
- *dispatch(action), register(callback)*
- Barriere mellom asynkront/synkront



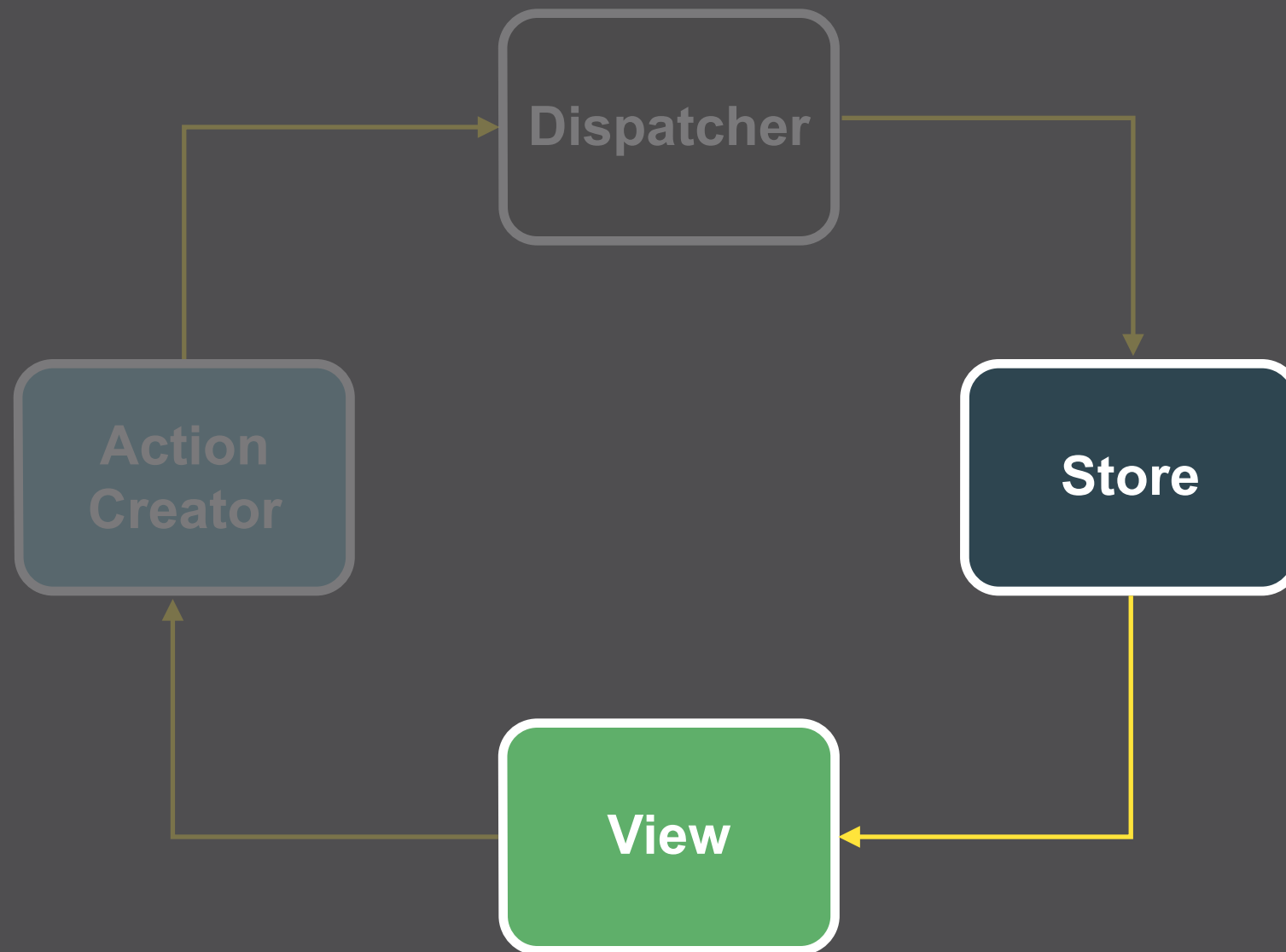
Isolering av tilstand



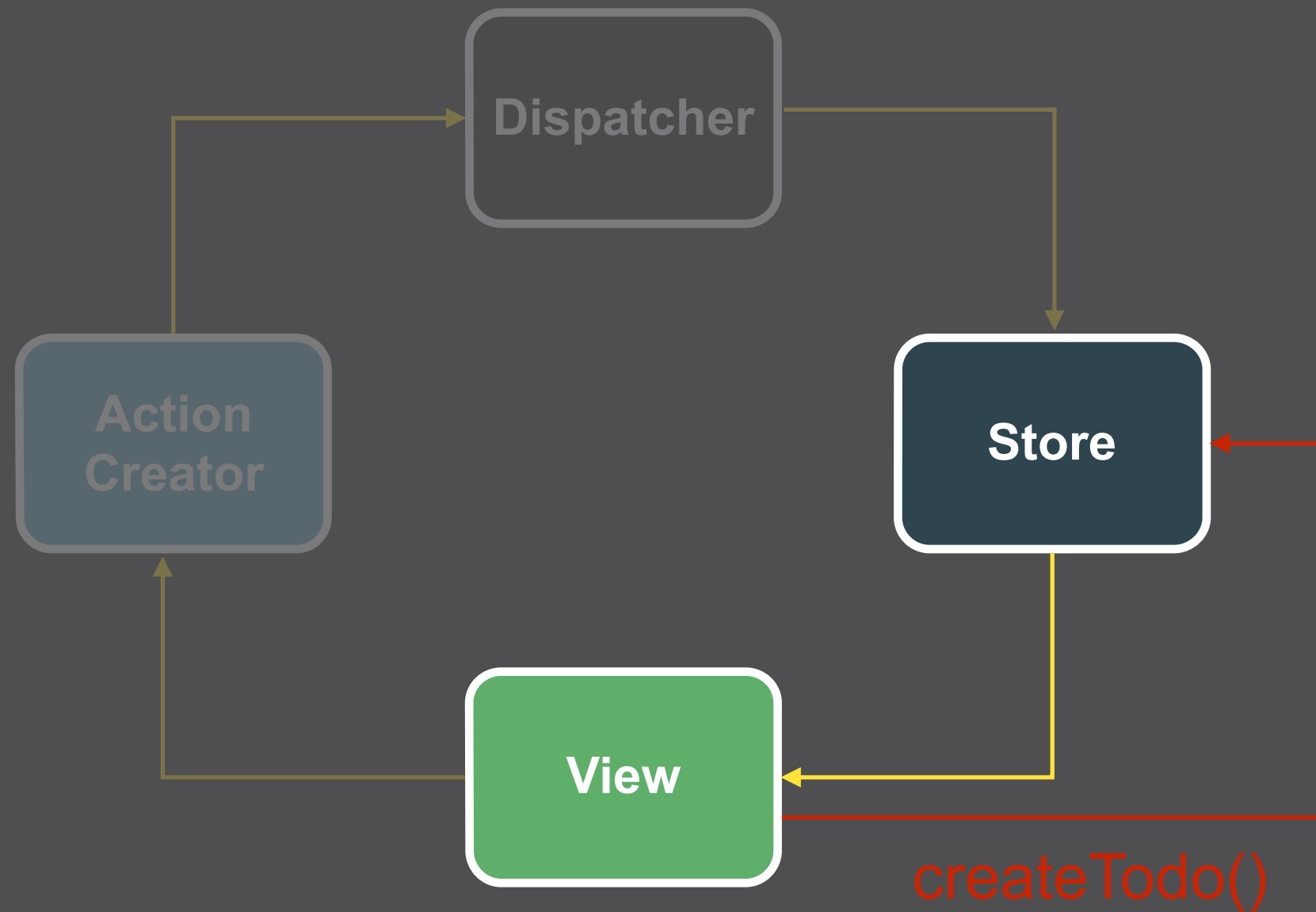
GUI-tilstand i Views



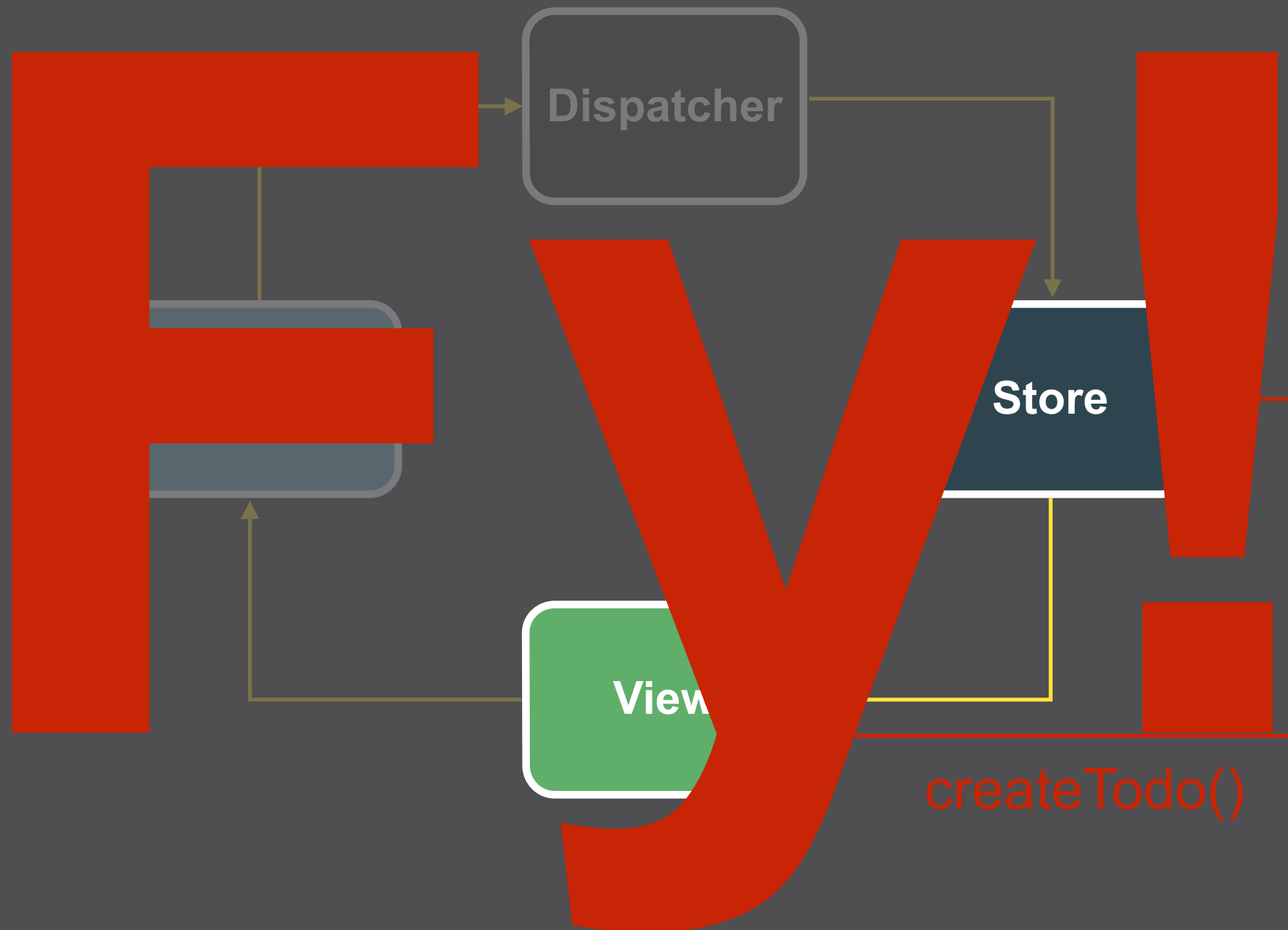
Kun lesetilgang



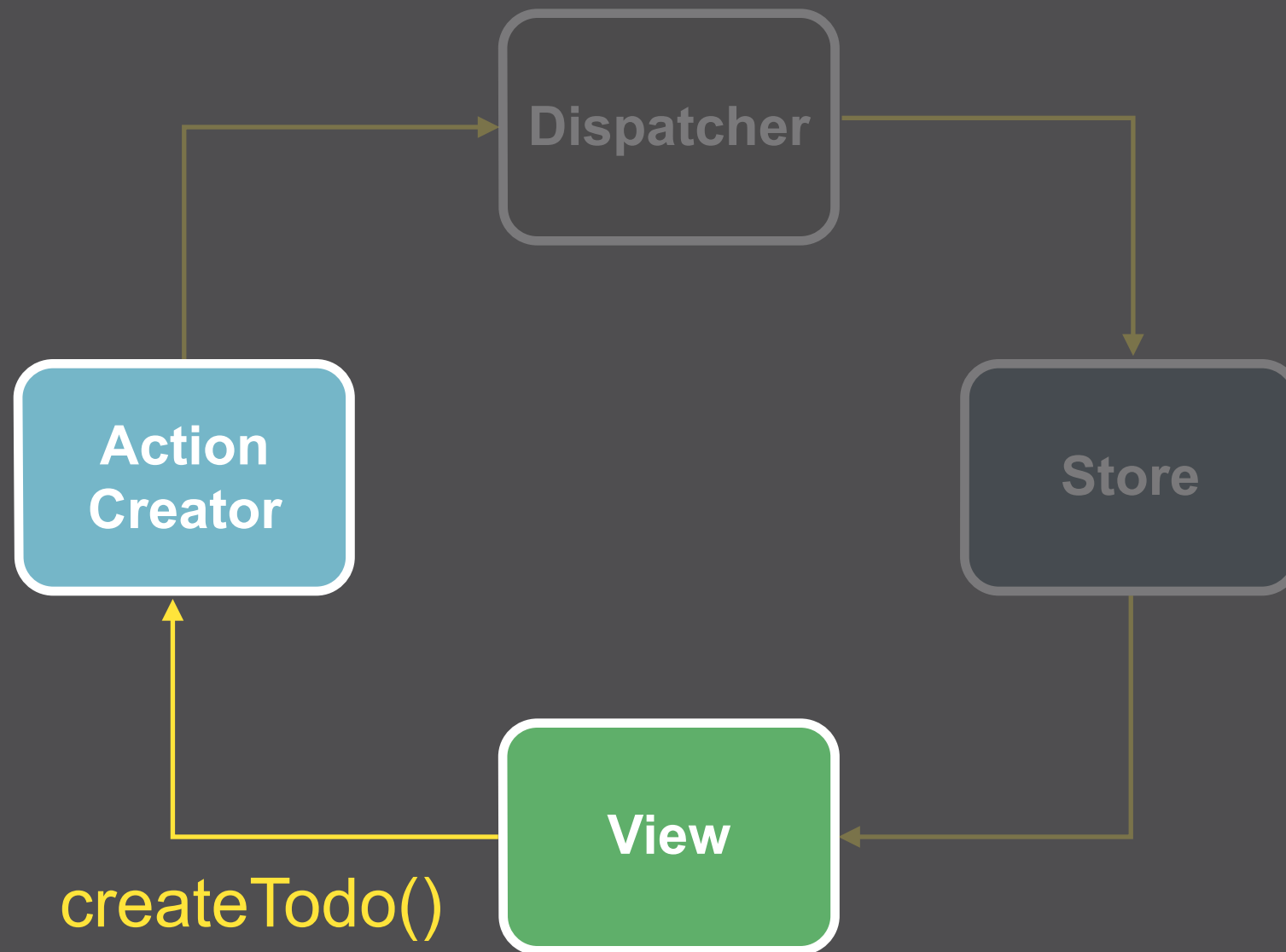
Kun lesetilgang



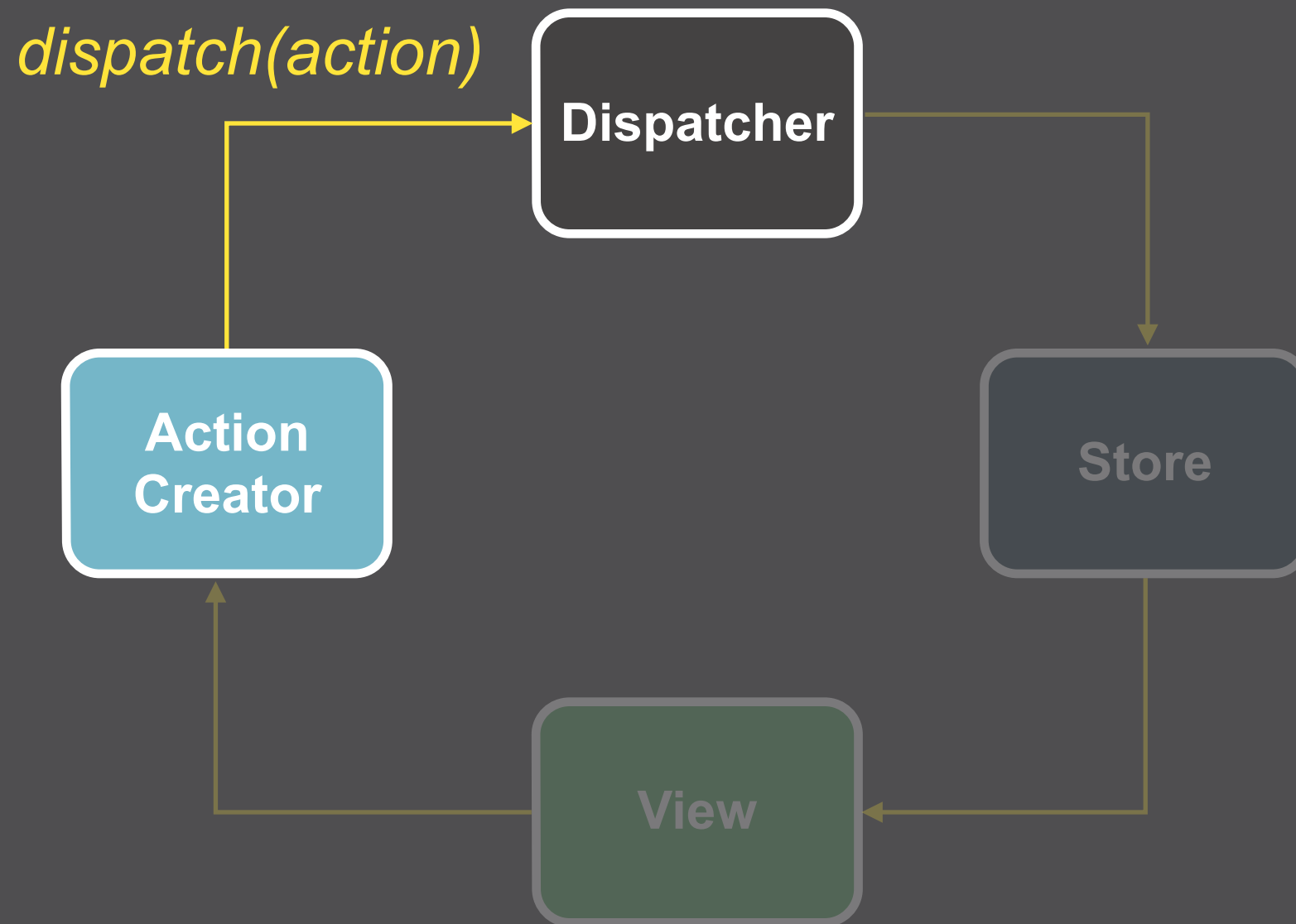
Kun lesetilgang



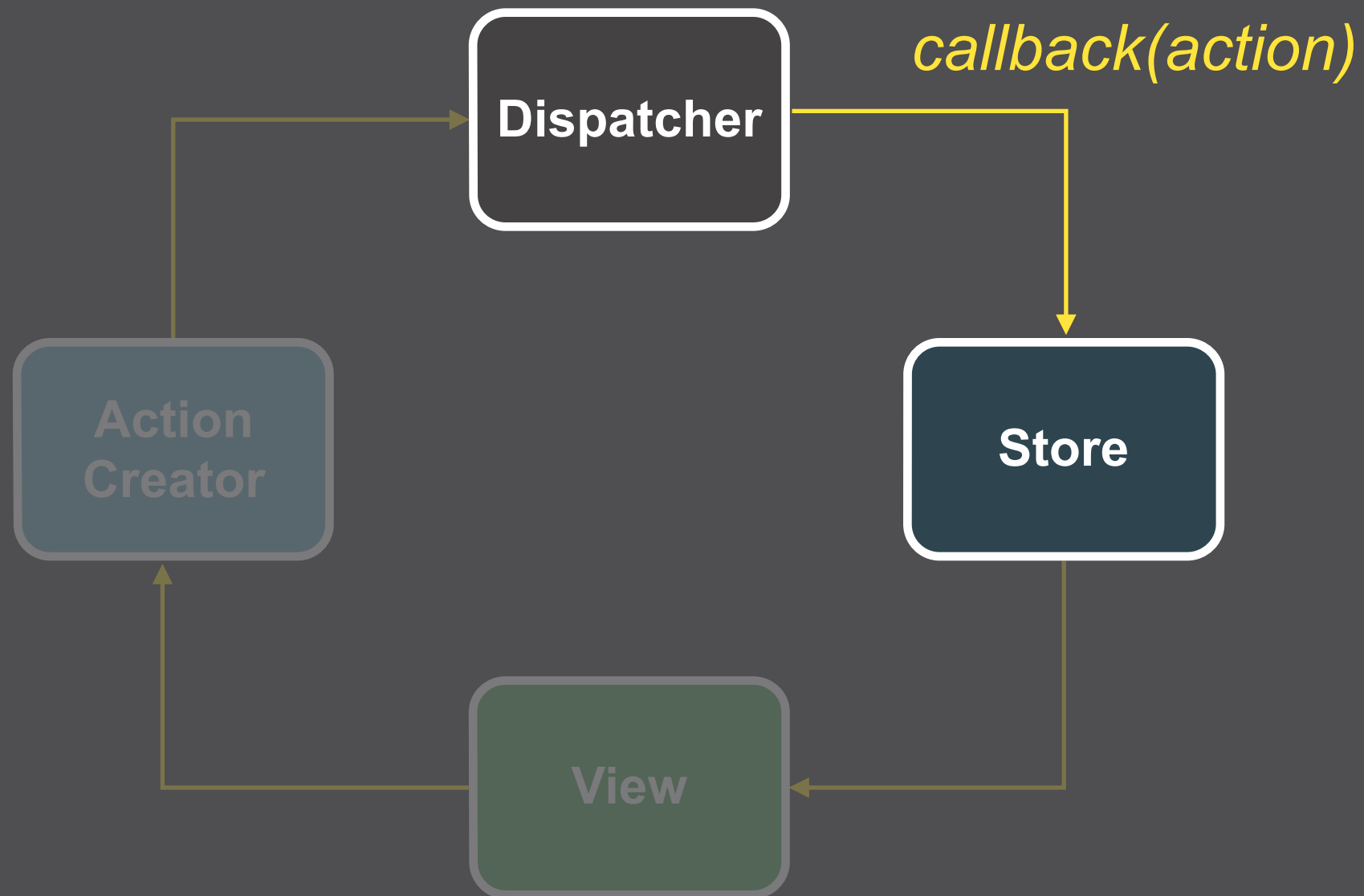
Kun lesetilgang



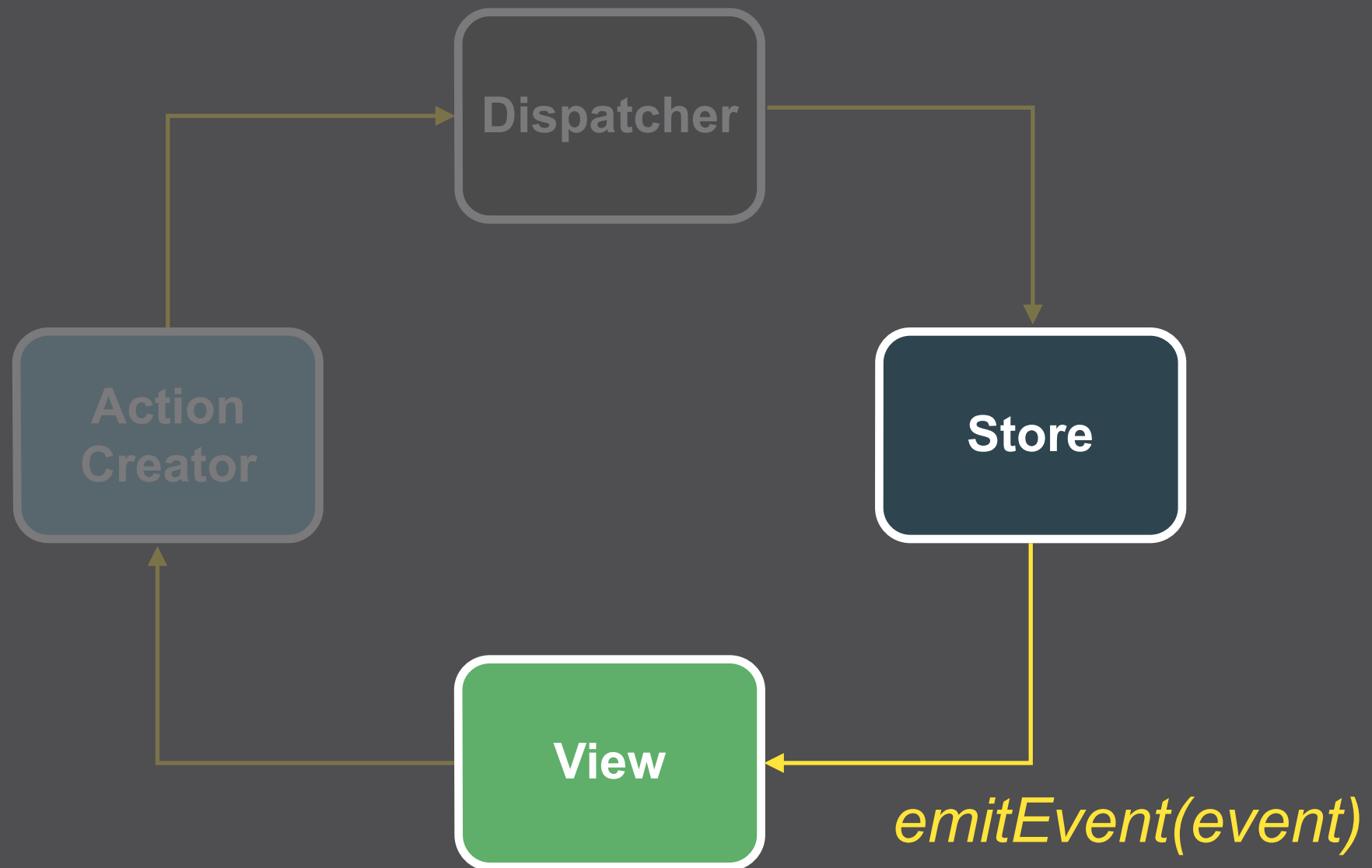
Kun lesetilgang



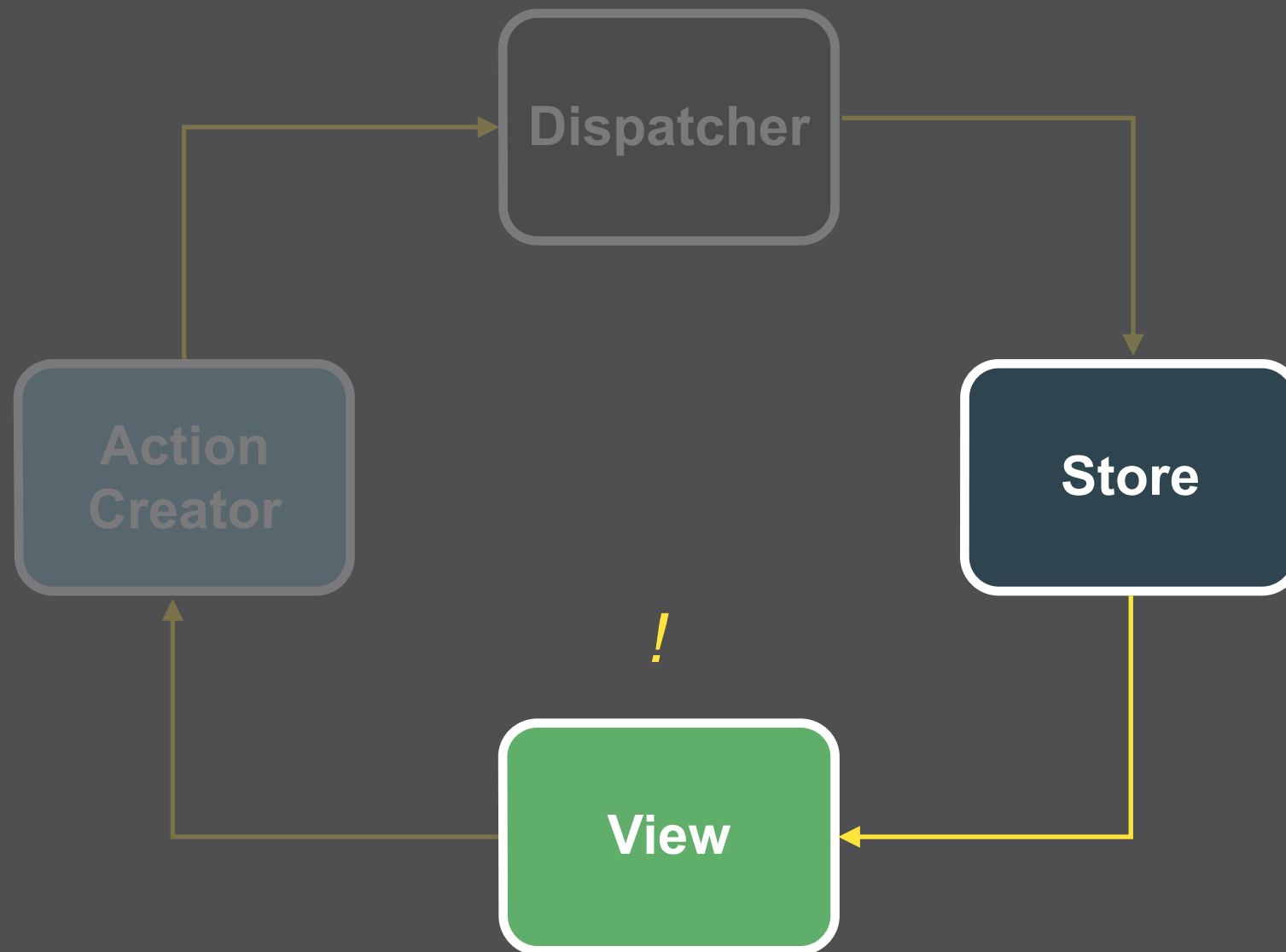
Kun lesetilgang



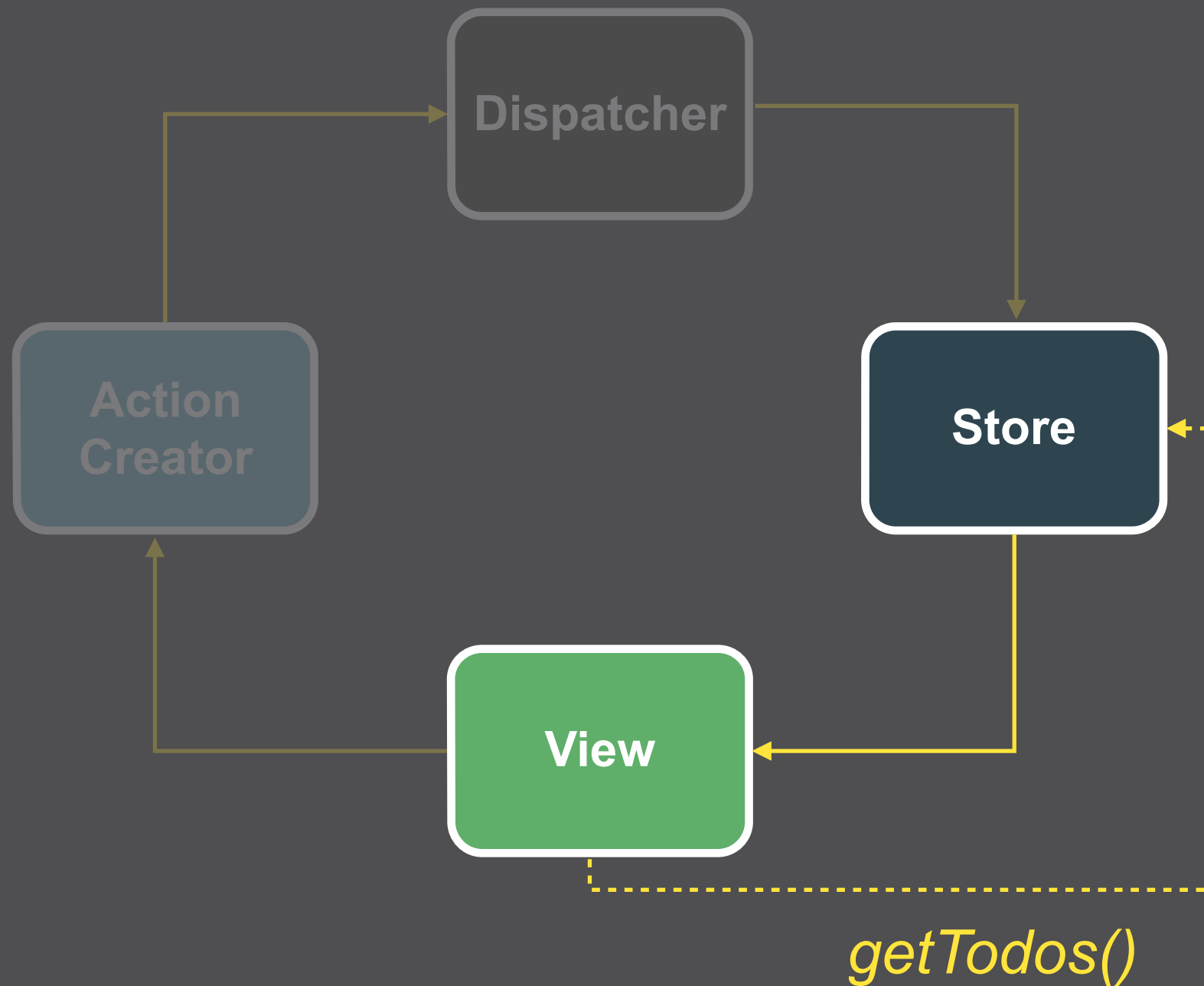
Kun lesetilgang



Kun lesetilgang



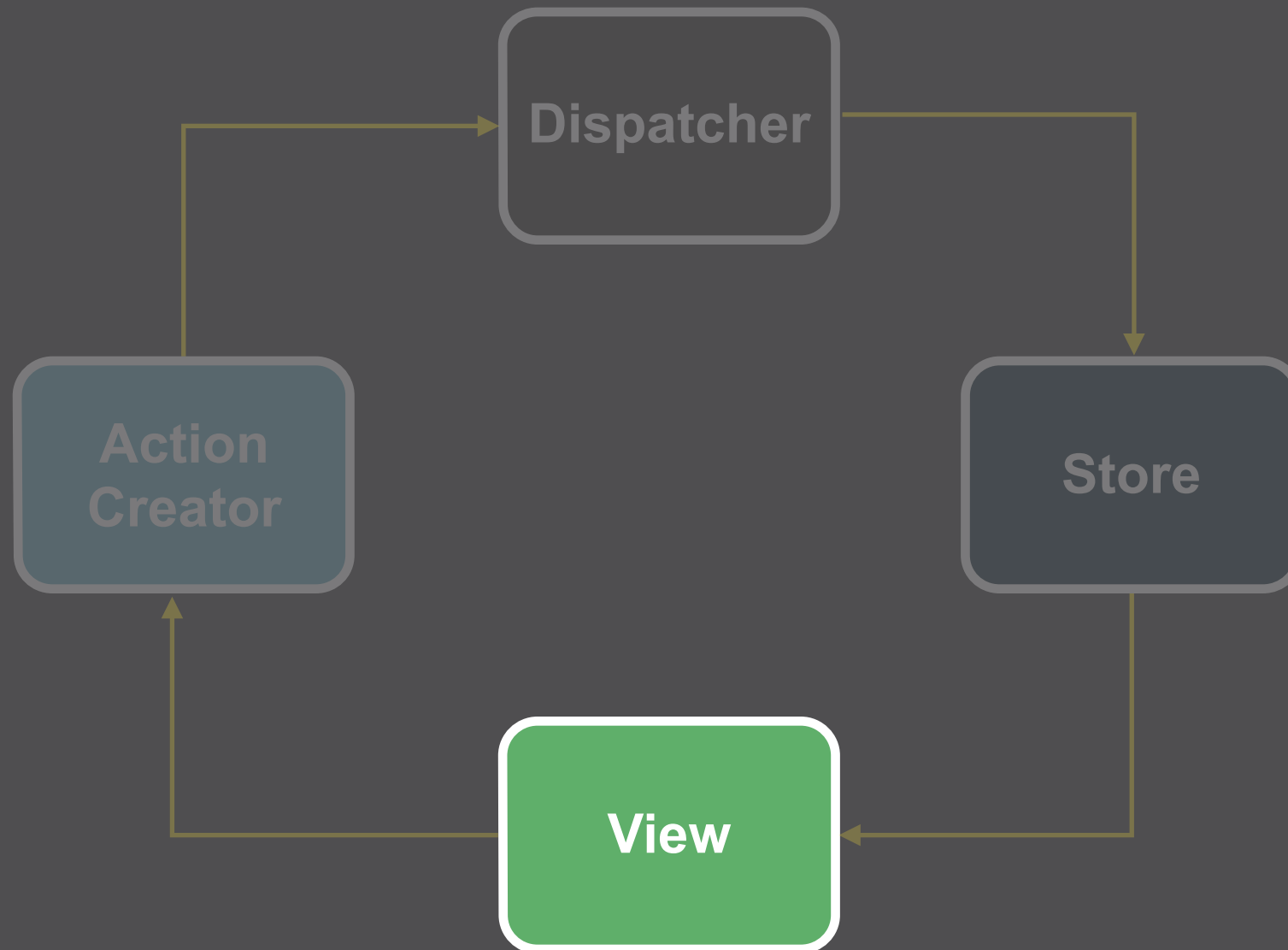
Kun lesetilgang

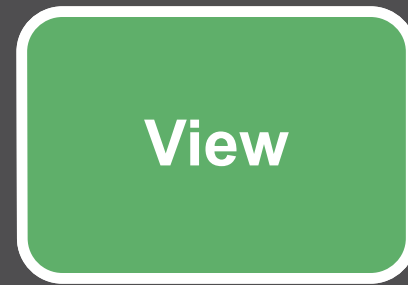




Store

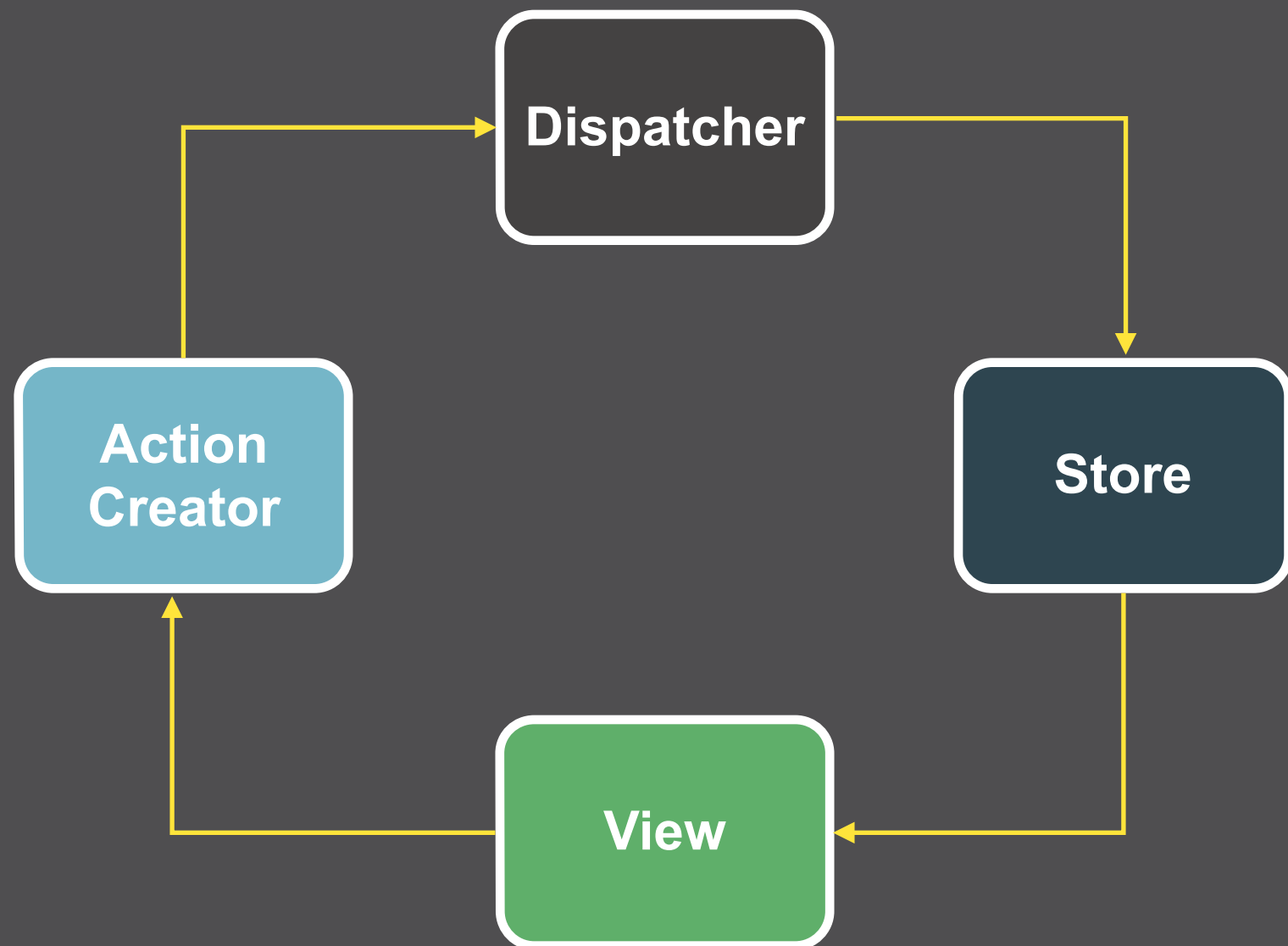
- Registrer seg hos dispatcher vha *register(callback)*
- Inneholder all forretningslogikk og tilstand
- Én store for hvert domene
- Oppdaterer views via events (EventEmitter)



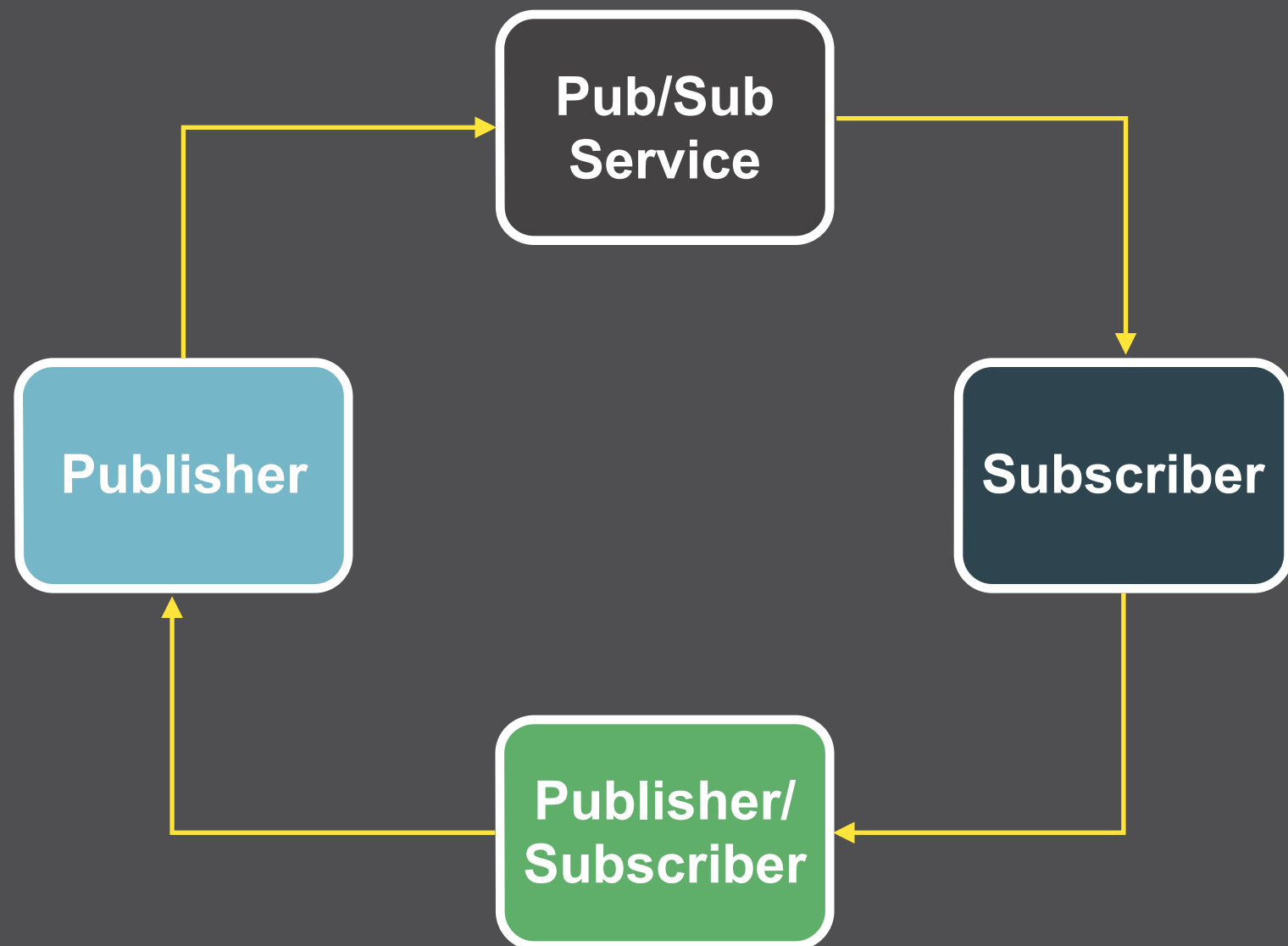


- Flux er ment som et komplement til React
- Controller views lytter på stores
- Mottar events fra stores
- Kun lesetilgang til stores

Flux minner meg om...



Pub/Sub



Pub/Sub

“Dispatcher is used to broadcast payloads to registered callbacks. This is different from generic pub-sub systems in two ways:

- 1. Callbacks are not subscribed to particular events.*
- 2. Every payload is dispatched to every registered callback.*

Callbacks can be deferred in whole or part until other callbacks have been executed.” [0]

[0]: <http://facebook.github.io/flux/docs/dispatcher.html>

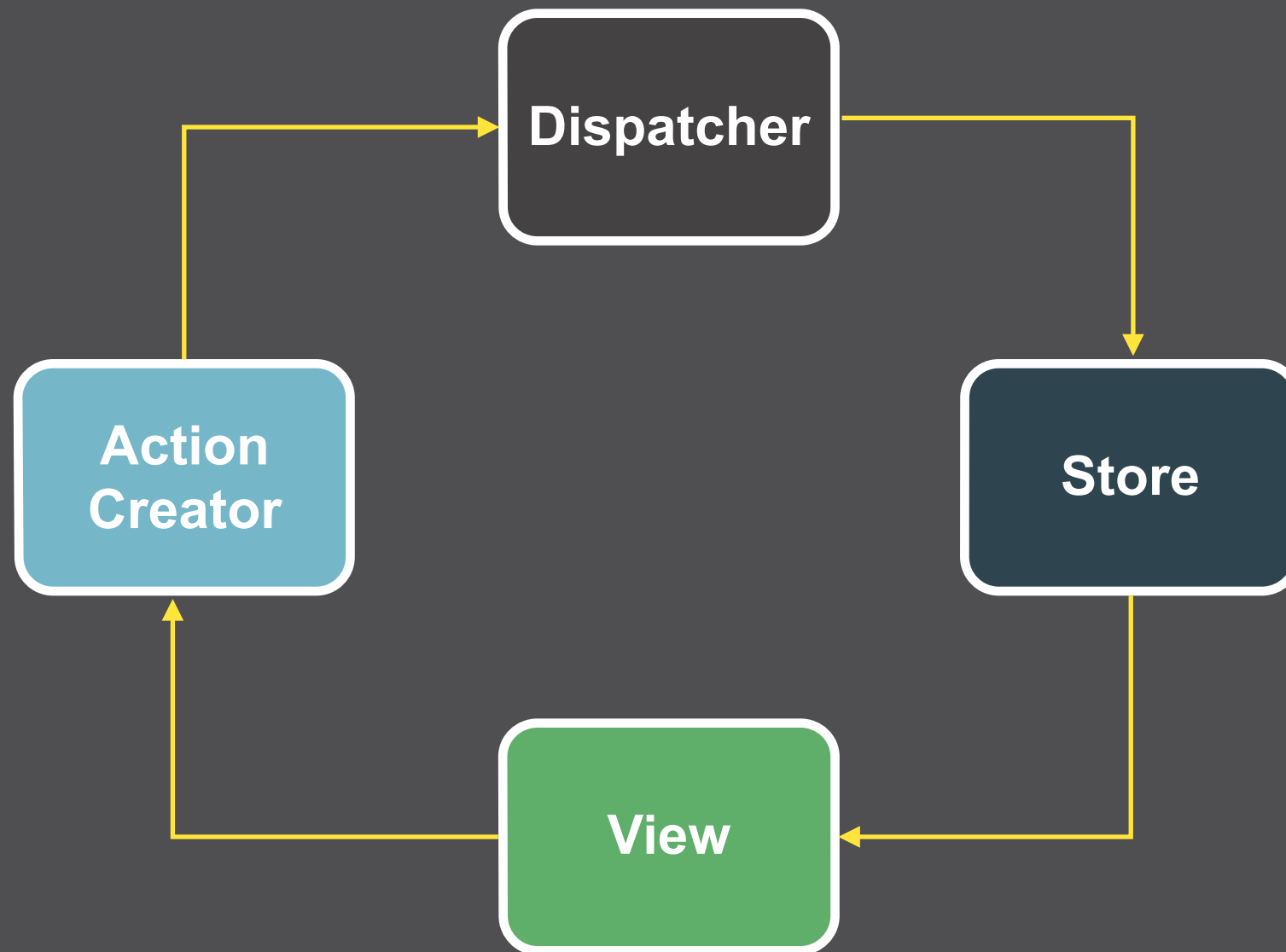
Hvorfor?

Hvorfor Flux?

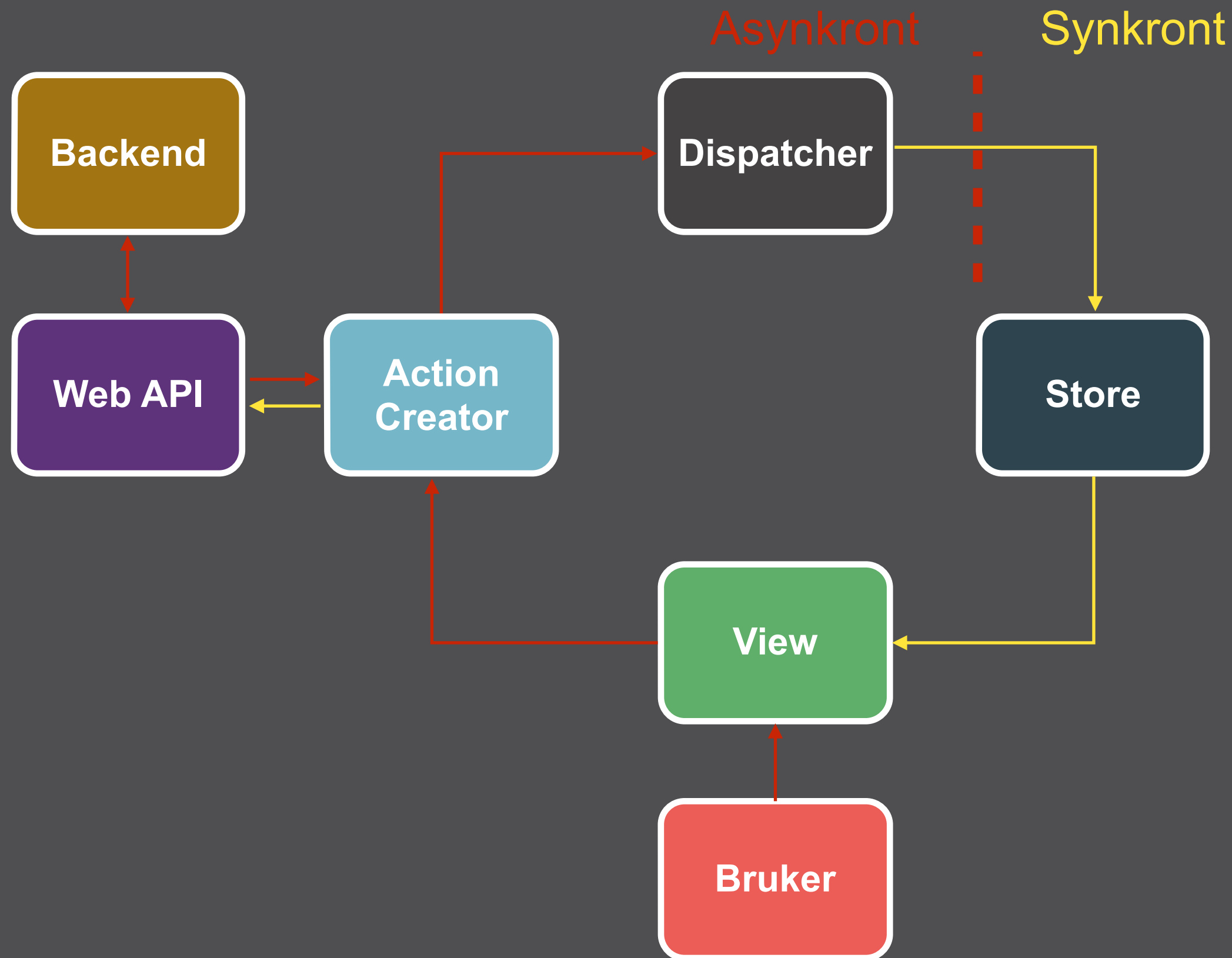
- Konseptuelt enkelt
- Forutsigbart, lett å debugge
- Lettere å resonnerer rundt
- Isolerer asynkronitet og tilstand

Oppsummering

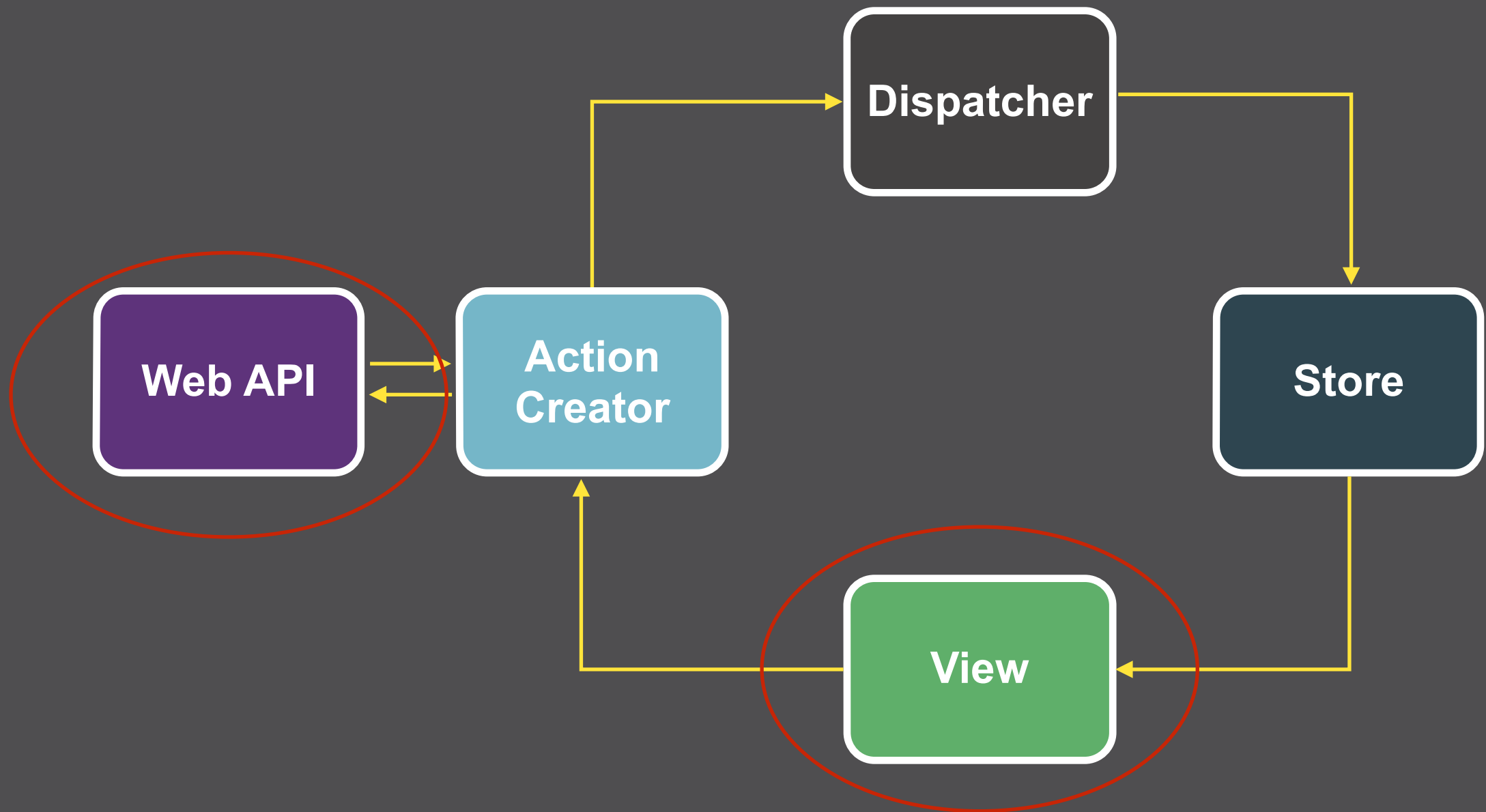
Dataflyten går kun én vei



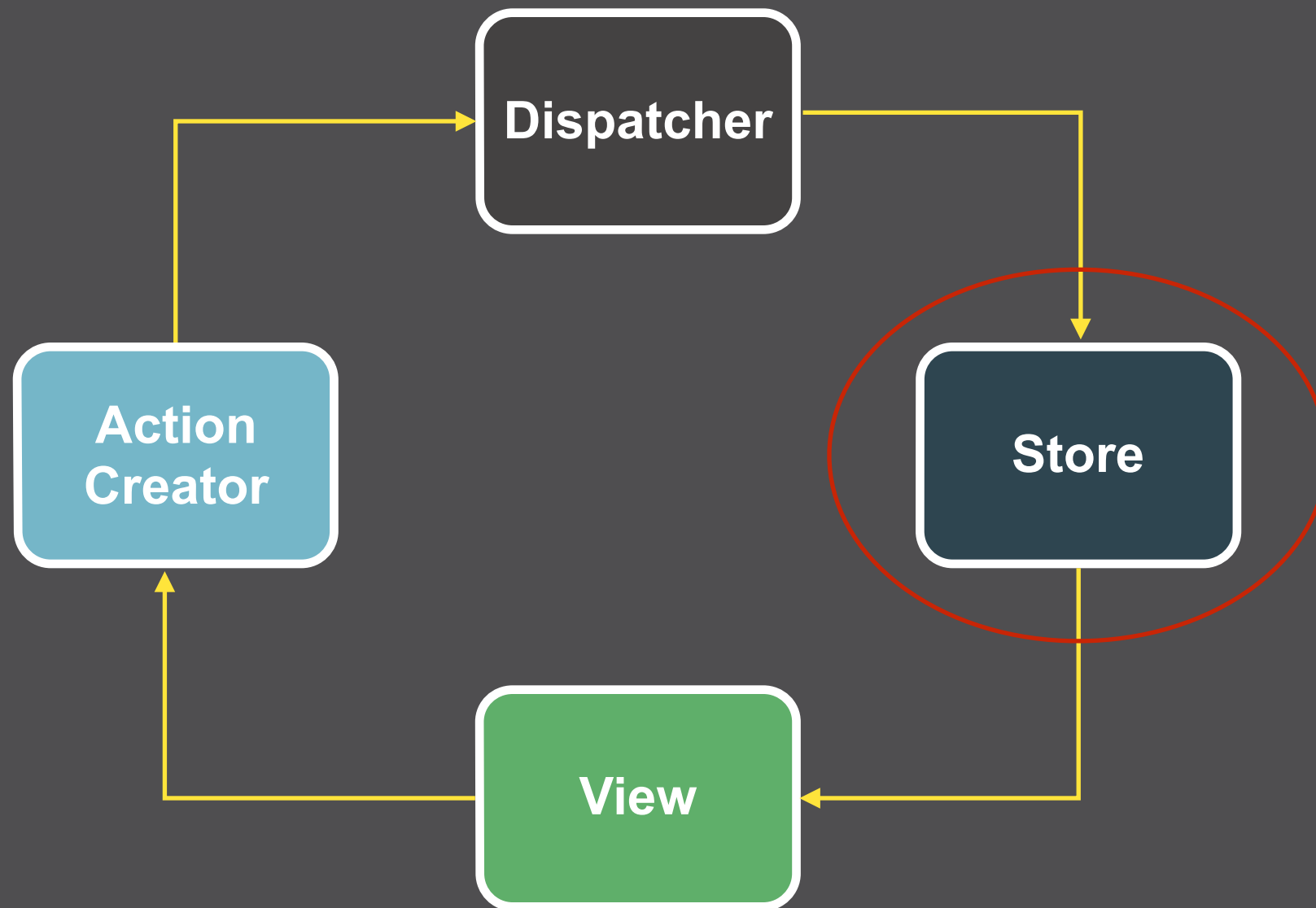
Async “barriere”



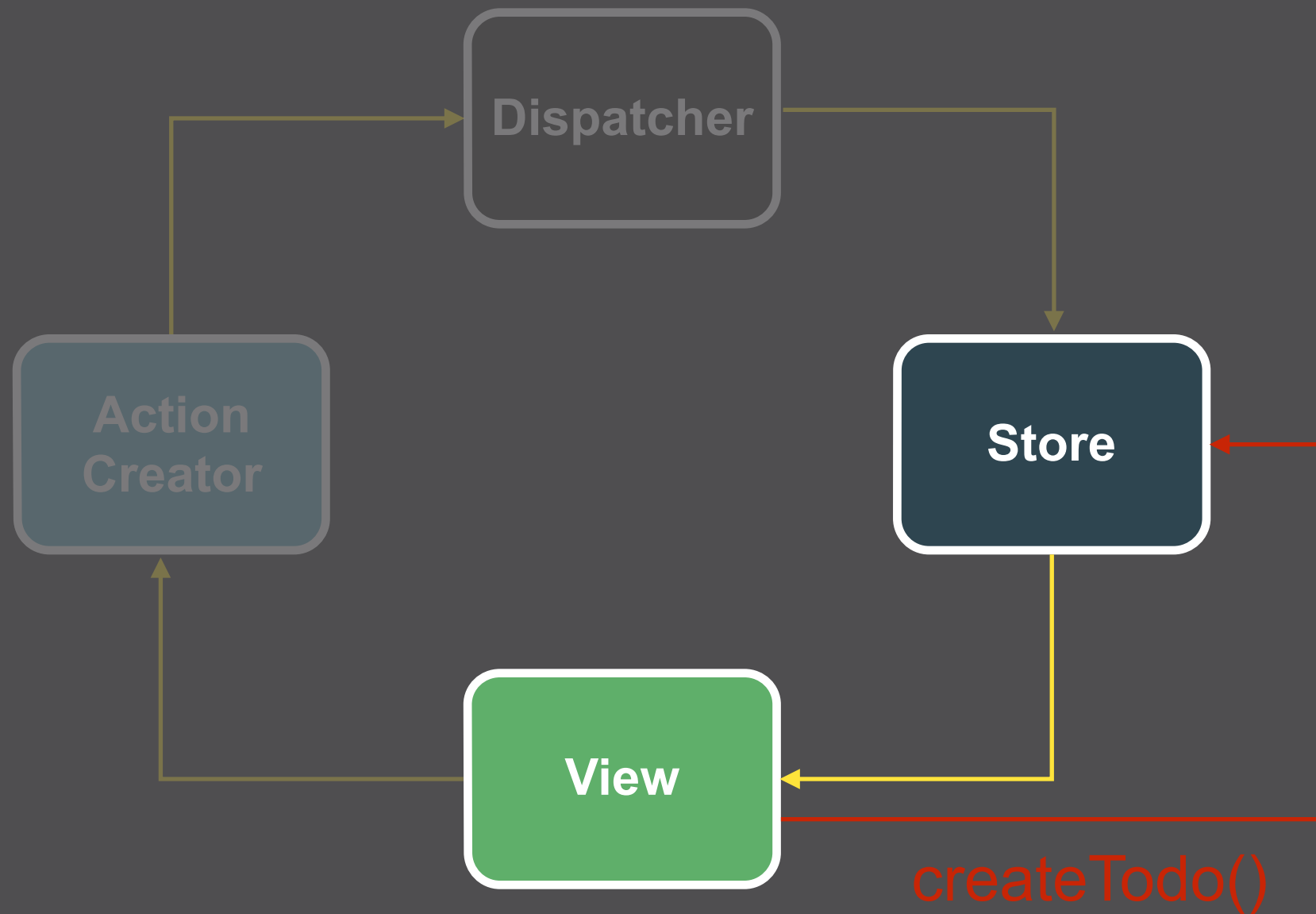
Isolering av async



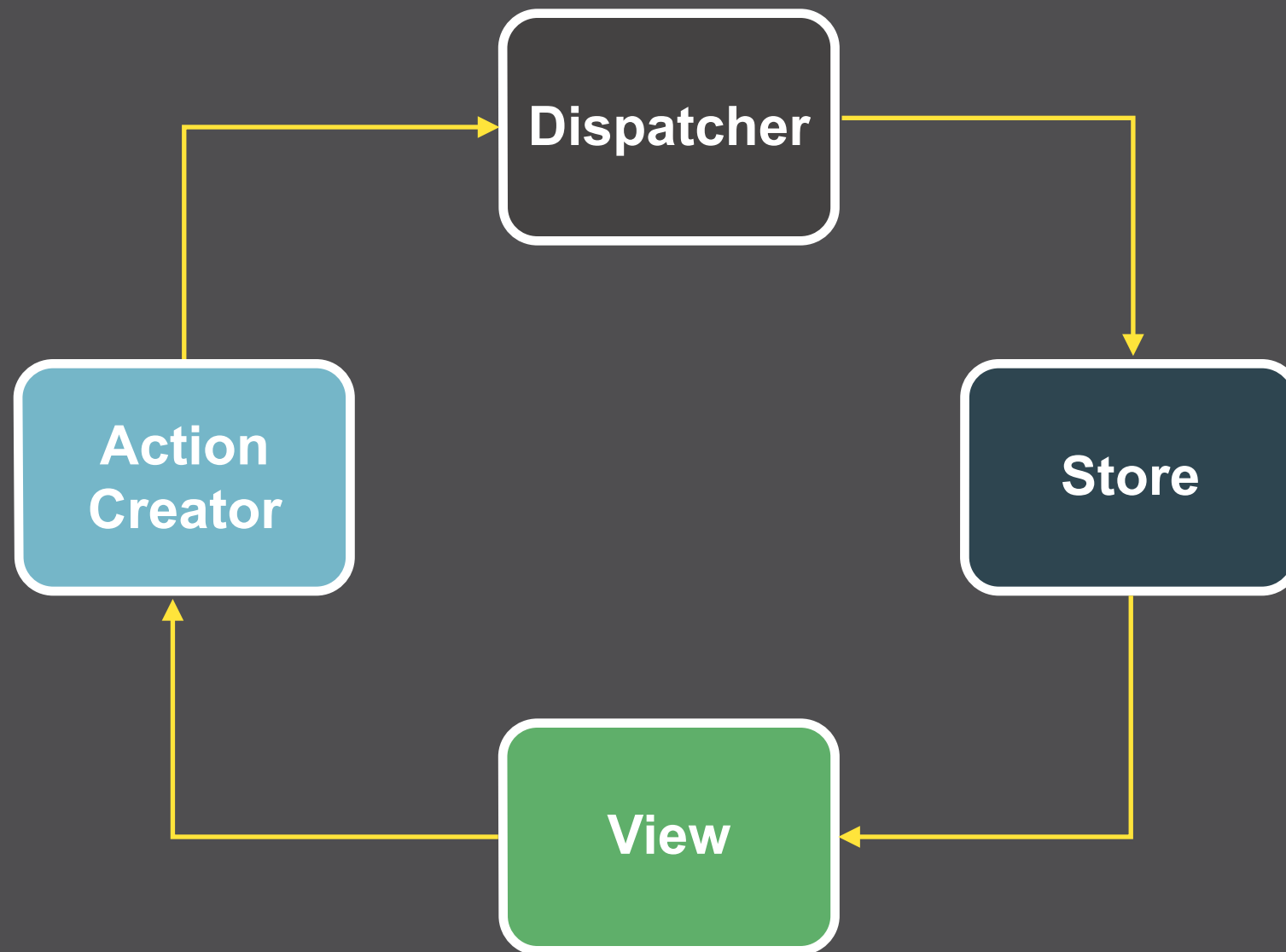
Isolering av tilstand



Kun lesetilgang



Mental modell



Framover

- Finsliping av konseptene (reflux, fluxxor, fluxible)
- Mer påvirkning fra funksjonelle paradigmer (frp)
- om (Clojurescript), omniscient (JS)
- Flow, Typescript

<https://github.com/kjbekkelund/flux-workshop>